Progress Report
August 31, 2009 through October 2, 2009
for
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

(USEPA No. NJD980529879)

October 12, 2009

Prepared for:

Morton International, Inc.

Prepared by:

PARSONS

Table of Contents

Tables

Attachments

Section 1 – Introduction

This progress report for the West Riser Tide Gate Sediment Removal Action located in the Boroughs of Wood-Ridge and Carlstadt, New Jersey summarizes the status of remedial actions being performed as described in the West Riser Sediment Removal Action Work Plan (SRAWP), approved by the United States Environmental Protection Agency (USEPA) on September 9, 2009. The progress report covers the period from August 31, 2009 to October 2, 2009. The progress report is being submitted pursuant to the Administrative Consent Order (ACO) between Morton International, Inc. and the USEPA as well as the monthly progress reporting requirements of the SRAWP. This report has been prepared in a similar format as that used for the remedial action underway at the adjacent Ventron/Velsicol site.

The components of the remedial action presented in the SRAWP are as follows:

- Cofferdam construction
- By-pass pumping system installation and operation
- Monitoring
- Sediment removal; and
- Site restoration

The progress report is organized as follows:

- Section 1 – Introduction;
- Section 2 – Remedial Actions Summary;
- Section 3 – Permitting Application Status;
- Section 4 – Sampling Results and Waste Generated; and
- Section 5 – Cost Summary.

Section 2 – Remedial Actions Summary

2.1 Remedial Actions Status

This section summarizes the status of remedial actions at the Site for the reporting period. **Table 1**, attached, provides a summary of remedial actions and the status of each. Remedial actions performed during this period include:

- Cofferdam Construction:
  - Upstream and downstream cofferdams were installed and the sheets driven to depth.
  - Five flap gates were installed at the downstream cofferdam to allow upstream water to pass through the cofferdam in an overtopping event.
  - Scour protection was installed at both cofferdams.
- By-pass Pumping System Installation and Operation
  - Six by-pass pumps, consisting of four 12-inch diameter pumps and two 24-inch diameter pumps, were installed
  - Suction and discharge lines for the six pumps were installed.
  - An energy dissipater pad was installed at bypass discharge and discharge piping was anchored at the energy dissipater.
- Sediment Removal
  - Sediment removal began on 9/30/09 in Area U. Approximately 20% of the excavation was completed during this period.
- Site Restoration
  - No site restoration activities were conducted this period.

2.2 Deviations and Modifications

The top of the downstream cofferdam was raised 6-inches in anticipation of very high tides in mid-October. The extension consisted of steel plates welded to the top of the sheet piles. This raised the top of the downstream cofferdam to the same level of the top of the existing tide gate.

No other deviations from or modifications to the SRAWP occurred during this reporting period.

2.3 Remedial Actions to be Performed Next Period

The following remedial actions are scheduled to be performed during the next reporting period (October 2, 2009 to November 6, 2009):

- Cofferdams construction:
  - Cofferdam removal will begin next period after sediment removal is completed
- By-pass Pumping System Installation and Operation
  - Operation of the by-pass system will continue next period while the cofferdams remain in place.
- Sediment Removal

    - Sediment removal is scheduled to be completed next period.
- Site Restoration
    - Site restoration will begin next period.

2.4 Schedule of Remedial Activities

The schedule of West Riser SRAW remedial activities at the Site is provided in **Attachment 1**.

2.5 Problems or Delays

The following problems or delays occurred during the reporting period:

- Difficulties with installation of sheets, pump and piping setup and testing and sealing leaks and seepage through the downstream cofferdam delayed the start of excavation approximately four days. Leakage has been greatly diminished but continues during high tides so a system has been established to isolate the seepage from sediments, allowing the water to be pumped back into Berry's Creek.
- Testing of 24 inch pumps identified difficulties with priming the pumps rapidly. This was solved by installing a high point in the pipes that allowed water to be inserted into the pipes and eliminating air in the line near the pumps.
- Completion of the cofferdams and pumping of water in the West Riser reduced water levels to a point such that surface water samples upstream cannot be collected.

Section 3 – Permit Application Status

The permit application status for the project is presented in **Table 2.** No permit applications were submitted in this progress report period. The Bergen Country Soil and Erosion Control permit approval letter was received during this period.

Section 4 – Sampling Results and Waste Generated

4.1 Sampling Results

This section summarizes sampling results obtained during the reporting period. Sampling was performed as part of the following programs:

- Construction Water Treatment Plant (CWTP) compliance testing;
- Total suspended solids and mercury (total and dissolved) analysis in Berry's Creek/West Riser; and
- Analytical testing for backfill material.

Testing of treated water from the CWTP was performed in accordance with permit number SRP PI G000004547 dated February 9, 2009. This testing is required on a weekly basis when the plant is discharging effluent. Additionally, testing was performed as required before contact water from the West Riser Sediment Removal Action can be treated and discharged.. Testing results are included in **Attachment 1**.

Testing of Berry Creek/West Riser surface water was conducted according to the water monitoring guidelines of the SRAWP. Total suspended solids and mercury concentration (total and dissolved) data were recorded to identify potential sediment resuspension or transport prior to, during, and after the sediment removal. One water column sample from two locations was taken during ebb and flow tides. The samples were tested for low level mercury and total suspended solids using EPA method 1631 and 160.2 respectively. A baseline monitoring period was established from August 12, 2009 to August 31, 2009 while the construction monitoring period ran from September 1, 2009 through present. A table summarizing the testing results is included as **Table 3**.

Testing was performed on the Dense Grade Aggregate (DGA) that will be used onsite. Analytical testing was performed by Sevenson Environmental of Niagara Falls, New York. This testing is included in **Attachment 2**.

Testing was performed on the Rip Rap and granite fill provided by Tilcon New Jersey and Tilcon New York to be used onsite. Analytical testing was performed by Sevenson Environmental of Niagara Falls, New York. The rip rap, ¾" granite, and 1 ½" granite conform to the quality requirements of section 901 of The New Jersey Department of Tranportation Standard Specifications for Road and Bridge Construction. Testing was also performed this period on backfill provided by Tilcon New York Inc that will be used onsite. Analytical testing was performed by Waste Stream Technology, Inc of Niagara Falls, New York. All of these test results and virgin certification for the stone are included in **Attachment 3**.

4.2 Waste Generated

There was no waste generated during this reporting period.

Tables

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
SW-01	20090812SW-01V0-1EUFD	Ebb	8/12/2009	14:00	0-1	774	NA	30
SW-01	20090812SW-01V0-1EUN	Ebb	8/12/2009	14:00	0-1	1040	31.1	31
SW-01	20090812SW-01V0-1FUN	Flood	8/12/2009	11:35	0-1	773	20.2	27
SW-02	20090812SW-02V0-1EUN	Ebb	8/12/2009	13:15	0-1	562	24.4	36
SW-02	20090812SW-02V0-1FUN	Flood	8/12/2009	12:45	0-1	1400	25.8	70
VVFB	20090812VVFB	-	8/12/2009	10:00	-	U	NA	NA
SW-01	20090813SW-01V0-1EUN	Ebb	8/13/2009	15:40	0-1	860	21.5	23
SW-01	20090813SW-01V0-1FUN	Flood	8/13/2009	12:35	0-1	694	23.4	24
SW-02	20090813SW-02V0-1EUN	Ebb	8/13/2009	15:05	0-1	654	23.9	45
SW-02	20090813SW-02V0-1FUN	Flood	8/13/2009	11:50	0-1	880	30	23
VVFB	20090813VVFB	-	8/13/2009	9:00	-	NA	U	NA
SW-01	20090818SW-01V0-1EUFD	Ebb	8/18/2009	9:30	0-1	NA	183 J	NA
SW-01	20090818SW-01V0-1EUN	Ebb	8/18/2009	9:30	0-1	1120 J	181 J	37 J
SW-01	20090818SW-01V0-1FUN	Flood	8/18/2009	7:20	0-1	1540 J	279 J	55 J
SW-02	20090818SW-02V0-1EUN	Ebb	8/18/2009	10:00	0-1	898 J	160 J	28 J
SW-02	20090818SW-02V0-1FUN	Flood	8/18/2009	6:45	0-1	5970 J	297 J	91 J
VVFB	20090818VVFB	-	8/18/2009	6:15	-	0.83 J	UJ	NA
SW-01	20090819SW-01V0-1EUN	Ebb	8/19/2009	10:50	0-1	1210	107	21
SW-01	20090819SW-01V0-1FUN	Flood	8/19/2009	7:30	0-1	1280	201	29
SW-02	20090819SW-02V0-1EUN	Ebb	8/19/2009	10:15	0-1	1140	126	28
SW-02	20090819SW-02V0-1FUN	Flood	8/19/2009	8:00	0-1	1840	181	26
VVFB	20090819VVFB	-	8/19/2009	7:00	-	0.19 J	U	NA
SW-01	20090820SW-01V0-1EUN	Ebb	8/20/2009	11:00	0-1	722	62.1	18
SW-01	20090820SW-01V0-1FUN	Flood	8/20/2009	7:55	0-1	1530	192	26
SW-02	20090820SW-02V0-1EUN	Ebb	8/20/2009	10:45	0-1	671	81.7	28
SW-02	20090820SW-02V0-1FUN	Flood	8/20/2009	8:15	0-1	1240	104	38
VVFB	20090820VVFB	-	8/20/2009	7:30	-	U	U	NA
SW-01	20090824SW-01V0-1EUN	Ebb	8/24/2009	15:05	0-1	766	137	15
SW-01	20090824SW-01V0-1FUFD	Flood	8/24/2009	12:40	0-1	933 J	169	15
SW-01	20090824SW-01V0-1FUN	Flood	8/24/2009	12:40	0-1	1420 J	227	18
SW-01	20090824SW-01V3.4-3.5EUN	Ebb	8/24/2009	15:10	3.4-3.5	773	28	17
SW-01	20090824SW-01V3.4-3.5FUN	Flood	8/24/2009	12:45	3.4-3.5	1180	227	19
SW-02	20090824SW-02V0-1EUN	Ebb	8/24/2009	15:45	0-1	501	96.2	14
SW-02	20090824SW-02V0-1FUN	Flood	8/24/2009	12:00	0-1	1200	161	17
SW-02	20090824SW-02V3.4-3.5EUN	Ebb	8/24/2009	15:50	3.4-3.5	1170	75.2	17
SW-02	20090824SW-02V4.9-5.0FUN	Flood	8/24/2009	12:05	4.9-5	410	122	16

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
VVFB	20090824VVFB	-	8/24/2009	11:45	-	U	0.12 J	NA
SW-01	20090825SW-01V0-1EUN	Ebb	8/25/2009	15:35	0-1	808	103	14
SW-01	20090825SW-01V0-1FUN	Flood	8/25/2009	11:55	0-1	920	89.4	16
SW-01	20090825SW-01V1.4-1.5FUN	Flood	8/25/2009	12:00	1.4-1.5	902	107	14
SW-01	20090825SW-01V2.9-3.0EUN	Ebb	8/25/2009	15:40	2.9-3	781	98.6	14
SW-02	20090825SW-02V0-1EUN	Ebb	8/25/2009	14:55	0-1	501	99.9	16
SW-02	20090825SW-02V0-1FUN	Flood	8/25/2009	12:40	0-1	1800	99.7	18
SW-02	20090825SW-02V4.2-4.3FUN	Flood	8/25/2009	12:45	4.2-4.3	789	120	16
SW-02	20090825SW-02V5.9-6.0EUN	Ebb	8/25/2009	15:00	5.9-6	642	69.9	16
VVFB	20090825VVFB	-	8/25/2009	9:30	-	0.12 J	0.14 J	NA
SW-01	20090827SW-01V0.4-0.5EUN	Ebb	8/27/2009	6:50	0.4-0.5	237	11.5 J	14
SW-01	20090827SW-01V0.9-1.0FUN	Flood	8/27/2009	10:55	0.9-1	976	16 J	19
SW-01	20090827SW-01V0-1EUN	Ebb	8/27/2009	6:45	0-1	185	13.2 J	12
SW-01	20090827SW-01V0-1FUN	Flood	8/27/2009	10:50	0-1	1230	17.2 J	23
SW-02	20090827SW-02V0.74-0.75EUFD	Ebb	8/27/2009	7:25	0.74-0.75	392	13.9 J	14
SW-02	20090827SW-02V0.74-0.75EUN	Ebb	8/27/2009	7:25	0.74-0.75	448	14.4 J	13
SW-02	20090827SW-02V0-1EUN	Ebb	8/27/2009	7:20	0-1	492	15.6 J	18
SW-02	20090827SW-02V0-1FUN	Flood	8/27/2009	11:40	0-1	997	20.4 J	31
SW-02	20090827SW-02V1.9-2.0FUN	Flood	8/27/2009	11:45	1.9-2	1650	18.9 J	32
VVFB	20090827VVFB	-	8/27/2009	6:00	-	0.23 J	0.16 J	NA
SW-01	20090831SW-01V0-1ESUN	Ebb	8/31/2009	8:40	0-1	1160	233	13
SW-01	20090831SW-01V0-1FSUN	Flood	8/31/2009	6:40	0-1	1230	239	13
SW-01	20090831SW-01V1.9-2.0ESUN	Ebb	8/31/2009	8:45	1.9-2	938	218	11
SW-01	20090831SW-01V1.9-2.0FSUN	Flood	8/31/2009	6:45	1.9-2	1100	233	13
SW-02	20090831SW-02V0-1ESUN	Ebb	8/31/2009	8:00	0-1	1180 J	232 J	17
SW-02	20090831SW-02V0-1FSUN	Flood	8/31/2009	7:00	0-1	1230 J	221 J	18
SW-02	20090831SW-02V2.9-3.0ESUN	Ebb	8/31/2009	8:05	2.9-3	791 J	228 J	16
SW-02	20090831SW-02V3.4-3.5FSUN	Flood	8/31/2009	7:05	3.4-3.5	915 J	188 J	16
VVFB	20090831VVFB	-	8/31/2009	6:00	-	3.4	0.86	NA
	End of baseline monitoring period. Start of construction monitoring							
SW-01	20090903SW-01V0-1EUN	Ebb	9/3/2009	11:00	0-1	797	1.1	29
SW-01	20090903SW-01V0-1FUN	Flood	9/3/2009	9:00	0-1	964	40.6	45
SW-02	20090903SW-02V0-1FUFD	Flood	9/3/2009	8:15	0-1	987	39.6	21
SW-02	20090903SW-02V0-1FUN	Flood	9/3/2009	8:15	0-1	1000	34.1	31
VVFB	20090903VVFB	-	9/3/2009	7:30	-	U	U	NA
SW-01	20090904SW-01V0-1EUN	Ebb	9/4/2009	10:30	0-1	922 J	NA	26 J
SW-01	20090904SW-01V0-1FUN	Flood	9/4/2009	7:45	0-1	890 J	NA	34 J

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
SW-02	20090904SW-02V0-1EUN	Ebb	9/4/2009	11:05	0-1	699 J	NA	23 J
SW-02	20090904SW-02V0-1FUN	Flood	9/4/2009	8:15	0-1	1220 J	NA	27 J
VVFB	20090904VVFB	-	9/4/2009	7:00	-	0.14 J	NA	NA
SW-01	20090909SW-01V0-1EUN	Ebb	9/9/2009	14:25	0-1	910	10.2	23
SW-01	20090909SW-01V0-1FUN	Flood	9/9/2009	10:30	0-1	1090	11.6	41
SW-02	20090909SW-02V0-1EUN	Ebb	9/9/2009	14:50	0-1	436	14.1	28
SW-02	20090909SW-02V0-1FUN	Flood	9/9/2009	11:00	0-1	700	9.1	31
VVFB	20090909VVFB	-	9/9/2009	10:00	-	0.26 J	U	NA
SW-01	20090910SW-01V0-1EUN	Ebb	9/10/2009	15:30	0-1	1430	12.1	27
SW-01	20090910SW-01V0-1FUN	Flood	9/10/2009	11:00	0-1	1360	14.6	40
SW-02	20090910SW-02V0-1EUN	Ebb	9/10/2009	14:55	0-1	329	6.6	17
SW-02	20090910SW-02V0-1FUN	Flood	9/10/2009	11:30	0-1	728	8.7	33
VVFB	20090910VVFB	-	9/10/2009	10:40	-	U	U	NA
SW-01	20090915SW-01V0-1EUN	Ebb	9/15/2009	9:20	0-1	709	14.1 J	23
SW-01	20090915SW-01V0-1FUN	Flood	9/15/2009	16:20	0-1	2980	23.5 J	37
SW-02	20090915SW-02V0-1EUFD	Ebb	9/15/2009	9:20	0-1	730	15.5 J	23
SW-02	20090915SW-02V0-1EUN	Ebb	9/15/2009	8:40	0-1	817	13.1 J	23
SW-02	20090915SW-02V0-1FUN	Flood	9/15/2009	16:55	0-1	1320	14.5 J	52
VVFB	20090915VVFB	-	9/15/2009	8:15	-	0.44 J	U	NA

Notes:
Baseline Monitoring Period: August 12 through August 31, 2009
Construction Monitoring Period: September 1, 2009 through current date.

Acronyms:
- = Not Applicable
J = Estimated Value
mg/L = milligrams per liter
NA = Not Analyzed
ng/L = nanograms per liter
SW-01 = Upstream Monitoring Station
SW-02 = Downstream Monitoring Station
U = Not Detected

Table 2 - Permit Application Status as of October 2, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

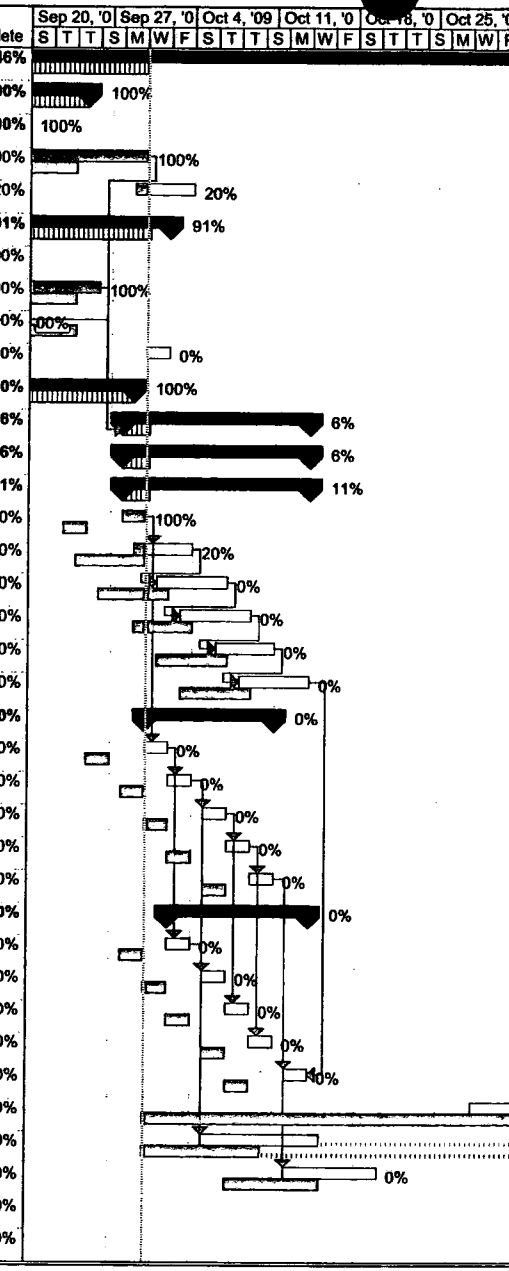
Permit Title	Permit Number	Reviewing Agency	Agency Contact	Date Submitted	Approval Date	Expiration Date	Comments
Freshwater Wetlands Permit	FWW 090001	LURP/ Dredging Office	Gary Nickerson	6/15/2009	NA	NA	Awaiting approval
Waterfront Development Permit	CDT 090001	LURP/ Dredging Office	Gary Nickerson	6/15/2009	NA	NA	Awaiting approval
Flood Hazard Area Permit	CDT 090002	LURP/ Dredging Office	Gary Nickerson	6/15/2009	NA	NA	Awaiting approval
Soil and Erosion Control Permit	09-B10212	Bergen County Soil	Angelo Caruso	7/15/2009	9/29/2009	NA	
FAA Permit	630996-109614384	FAA	Robert Alexander	4/29/2009	6/5/2009	12/5/2010	
Tidelands Instrument	0200-05-0002.3	Bureau of Tidelands Management	Bill Kresnosky	7/23/2009	NA	NA	Awaiting approval

Table 1 - Remedial Actions between August 31, 2009 and October 2, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

Remedial Action	Description	Scheduled this Period?	Status	Comments
Construction of cofferdams	Installation of upstream cofferdam	Yes	Completed	Sheets were driven to depth. Scour protection installed.
	Installation of downstream cofferdam	Yes	Completed	Five flap gates installed. Sheets were driven to depth. Scour protection installed.
	Increase Height of Backflow Dam by 6"	No	Ongoing	
Installation of by-pass pumping systems	System delivery and setup	Yes	Completed	
	Install Dewatering system	Yes	Completed	Four 12-inch diameter pumps, suction and discharge lines have been installed. Energy dissipater pad has been installed at by-pass discharge and discharge piping has been anchored at the energy-dissipater .
	24" pump installation	Yes	Ongoing	Installation of two 24-inch diameter pumps.
Operaton of by-pass pumping systems	Operation of pump system to by-pass space between cofferdams	Yes	Ongoing	Initial water drawdown performed and commenced dewatering of Zone 1.
Sediment removal	Sediment removal in Area U	Yes	Ongoing	Approximately 20% of the excavation has been completed as of 10/2/09.
Site Restoration	Site Restoration	No	-	No site restoration was scheduled for this period.

Attachment 1 – Schedule of West Riser SRAWP Activities

ID	Task Name	Duration	Baseline Start	Baseline Finish	Start	Finish	Actual Start	Actual Finish	% Complete
1	**Berry Creek/WRTG Construction**	**93 days**	**Mon 8/10/09**	**Mon 11/23/09**	**Mon 8/10/09**	**Thu 12/17/09**	**Mon 8/10/09**	**NA**	**46%**
2	**SES pre-construction submittals**	**33 days**	**Mon 8/10/09**	**Fri 8/28/09**	**Mon 8/10/09**	**Thu 9/24/09**	**Mon 8/10/09**	**Thu 9/24/09**	**100%**
5	**Mobilization and Site Preparation**	**14 days**	**Mon 8/31/09**	**Wed 9/9/09**	**Mon 8/31/09**	**Fri 9/18/09**	**Mon 8/31/09**	**Fri 9/18/09**	**100%**
9	**Install Coffer Dams**	16 days	Wed 9/2/09	Wed 9/23/09	Tue 9/8/09	Tue 9/29/09	Tue 9/8/09	Tue 9/29/09	100%
10	Increase Height of Backflow Dam by 6"	5 days	NA	NA	Tue 9/29/09	Sat 10/3/09	Tue 9/29/09	NA	20%
11	**Install By-Pass Pumping and Dewatering Syst**	**18 days**	**Wed 9/2/09**	**Wed 9/23/09**	**Tue 9/8/09**	**Thu 10/1/09**	**Tue 9/8/09**	**NA**	**91%**
12	System Delivery	4 days	Wed 9/2/09	Wed 9/9/09	Tue 9/8/09	Fri 9/11/09	Tue 9/8/09	Fri 9/11/09	100%
13	System Setup	12 days	Fri 9/4/09	Wed 9/23/09	Thu 9/10/09	Fri 9/25/09	Thu 9/10/09	Fri 9/25/09	100%
14	Install Dewatering System	5 days	Thu 9/17/09	Wed 9/23/09	Mon 9/14/09	Fri 9/18/09	Mon 9/14/09	Fri 9/18/09	100%
15	Finalize 24" Pump Installation	2 days	NA	NA	Wed 9/30/09	Thu 10/1/09	Wed 9/30/09	NA	0%
16	**Test Systems and Water Treatment**	**9 days**	**Mon 9/14/09**	**Mon 9/21/09**	**Wed 9/16/09**	**Mon 9/28/09**	**Wed 9/16/09**	**Mon 9/28/09**	**100%**
20	**Operate Bypass Pumping System**	**14 days**	**Wed 9/23/09**	**Mon 11/9/09**	**Mon 9/28/09**	**Tue 10/13/09**	**Mon 9/28/09**	**NA**	**6%**
21	**Construction**	**14 days**	**Wed 9/23/09**	**Thu 10/8/09**	**Mon 9/28/09**	**Tue 10/13/09**	**Mon 9/28/09**	**NA**	**6%**
22	**Dewater Work Zones**	**14 days**	**Wed 9/23/09**	**Thu 10/8/09**	**Mon 9/28/09**	**Tue 10/13/09**	**Mon 9/28/09**	**NA**	**11%**
23	Initial Drawdown	2 days	Wed 9/23/09	Thu 9/24/09	Mon 9/28/09	Tue 9/29/09	Mon 9/28/09	Tue 9/29/09	100%
24	Dewater Zone 1	5 days	Thu 9/24/09	Tue 9/29/09	Tue 9/29/09	Sat 10/3/09	Tue 9/29/09	NA	20%
25	Dewater Zone 2	5 days	Sat 9/26/09	Thu 10/1/09	Thu 10/1/09	Tue 10/6/09	NA	NA	0%
26	Dewater Zone 3	5 days	Tue 9/29/09	Sat 10/3/09	Sat 10/3/09	Thu 10/8/09	NA	NA	0%
27	Dewater Zone 4	5 days	Thu 10/1/09	Tue 10/6/09	Tue 10/6/09	Sat 10/10/09	NA	NA	0%
28	Dewater Zone 5	5 days	Sat 10/3/09	Thu 10/8/09	Thu 10/8/09	Tue 10/13/09	NA	NA	0%
29	**Excavate Sediment**	**10 days**	**Fri 9/25/09**	**Tue 10/6/09**	**Wed 9/30/09**	**Sat 10/10/09**	**NA**	**NA**	**0%**
30	Excavation in Zone 1	2 days	Fri 9/25/09	Sat 9/26/09	Wed 9/30/09	Thu 10/1/09	NA	NA	0%
31	Excavation in Zone 2	2 days	Mon 9/28/09	Tue 9/29/09	Fri 10/2/09	Sat 10/3/09	NA	NA	0%
32	Excavation in Zone 3	2 days	Wed 9/30/09	Thu 10/1/09	Mon 10/5/09	Tue 10/6/09	NA	NA	0%
33	Excavation in Zone 4	2 days	Fri 10/2/09	Sat 10/3/09	Wed 10/7/09	Thu 10/8/09	NA	NA	0%
34	Excavation in Zone 5	2 days	Mon 10/5/09	Tue 10/6/09	Fri 10/9/09	Sat 10/10/09	NA	NA	0%
35	**Place Backfill**	**10 days**	**Mon 9/28/09**	**Thu 10/8/09**	**Fri 10/2/09**	**Tue 10/13/09**	**NA**	**NA**	**0%**
36	Backfill Zone 1	2 days	Mon 9/28/09	Tue 9/29/09	Fri 10/2/09	Sat 10/3/09	NA	NA	0%
37	Backfill Zone 2	2 days	Wed 9/30/09	Thu 10/1/09	Mon 10/5/09	Tue 10/6/09	NA	NA	0%
38	Backfill Zone 3	2 days	Fri 10/2/09	Sat 10/3/09	Wed 10/7/09	Thu 10/8/09	NA	NA	0%
39	Backfill Zone 4	2 days	Mon 10/5/09	Tue 10/6/09	Fri 10/9/09	Sat 10/10/09	NA	NA	0%
40	Backfill Zone 5	2 days	Wed 10/7/09	Thu 10/8/09	Mon 10/12/09	Tue 10/13/09	NA	NA	0%
41	NJMC Start WRTG Work	30 days	Wed 9/30/09	Mon 11/9/09	Wed 10/28/09	Thu 12/10/09	NA	NA	0%
42	Restoration/Temporary Erosion Control	15 days	Wed 9/30/09	Wed 11/11/09	Mon 10/5/09	Mon 12/14/09	NA	NA	0%
43	Load Out Stabilized Sediment	6 days	Wed 10/7/09	Wed 10/14/09	Mon 10/12/09	Mon 10/19/09	NA	NA	0%
44	Remove Cofferdams/Bypass Pumps/discharge li	10 days	Tue 11/10/09	Mon 11/23/09	Fri 12/4/09	Thu 12/17/09	NA	NA	0%
45	Decon and Demob	5 days	Tue 11/17/09	Mon 11/23/09	Fri 12/11/09	Thu 12/17/09	NA	NA	0%



Project: SES BC Schedule_9-30-09
Date: Wed 9/30/09

Critical
Critical Split
Critical Progress
Task
Split
Task Progress
Baseline
Baseline Split
Baseline Milestone
Milestone
Summary Progress
Summary
Project Summary
External Tasks
External Milestone
Deadline

Attachment 2 – Construction Water Treatment Plant Sampling Results

Bigler Associates, Inc.

September 24, 2009

Chris Greene, P.E., Project Manager
PARSONS
150 Federal Street
4th Floor
Boston, MA 02110

Re: Ventron Velsicol Superfund Site – Construction Water Treatment Plant Verification Testing of West Riser Tide Gate Water on September 21, 2009

Dear Chris:

BAI was provided with approximately 10,000 gallons of water from the West Riser Tide Gate project on September 21st. This initial supply of water was designated for use in performing full-scale verification testing. All treated water is currently stored in the effluent holding tanks with no discharge.

All of the Plant Effluent Test results were in compliance with NJDEP Discharge Permit Limits.

WRTG Data Summary
Sample Date – September 21, 2009

Parameter	Plant Effluent ug/l	NJDEP Permit Limit ug/l
Arsenic	<2.5	3
Mercury, total	<.20	2
Thallium	< 1.0	2
Iron	<150	1,000
Manganese	227	1,000
TSS	<5,000	5,000
Benzene	< 1.0	1

All Testing performed by Test America, Edison, NJ. Please contact me with any questions.

Sincerely,

BIGLER ASSOCIATES, INC.

Daniel Bigler

C: J. Fettig, T. Schoenberg, D. Alesandro, L. Frey

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-5910-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	Plant Effluent	
Lab Sample No.	PQLs and	PQLs and	460-5910-1	
Sampling Date	GW Quality	GW Quality	9/21/2009 9:30:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units	ug/l	ug/l	ug/L	
METALS				
Arsenic	8	3	2.5	U
Iron	300	300	150	U
Manganese	50	50	227	
Mercury	2	2	0.20	U
Thallium	10	2	1.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

Generated on 9/24/2009 12:59:12 PM

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-5910-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	Plant Effluent	
Lab Sample No.	PQLs and	PQLs and	460-5910-1	
Sampling Date	GW Quality	GW Quality	9/21/2009 9:30:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor			1	
Units	ug/l	ug/l	ug/L	
VOLATILE COMPOUNDS (GC/MS)				
Benzene	1	1	1.0	U
Total Confident Conc.			0	
Total Estimated Conc. (TICs)			0	

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

Generated on 9/24/2009 12:59:11 PM

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-5910-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	Plant Effluent	
Lab Sample No.	PQLs and	PQLs and	460-5910-1	
Sampling Date	GW Quality	GW Quality	9/21/2009 9:30:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units				
WET CHEMISTRY				
Total Suspended Solids (mg/L)	NA	NA	5.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

Generated on 9/24/2009 12:59:12 PM

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax (732) 549-3679

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): DAN ALESSANDRO	Samplers Name (Printed): DAN ALESSANDRO	Site/Project Identification: VENDEN – WRTG
Company: [illegible]	P.O. #	State (Location of site): NJ: ☒ NY: ☐ Other
		Regulatory Program: NJPDES
Address: [illegible]	Analysis Turnaround Time: Standard ☐; Rush Charges Authorized For: 2 Week ☐, 1 Week ☐, Other ☒ 24 HR	LAB USE ONLY — Project No:
City: [illegible] State: NJ		Job No:
Phone: 201-396-0112 Fax		

Sample Identification	Date	Time	Matrix	No. of Cont.	[illegible]	[illegible]	TSS								Sample Numbers
PLANT EFFLUENT	9/21	9:30		5	X	X	X								

Analysis Requested (enter 'X' below to indicate request)

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other ____, 7 = Other ____			
Soil:			
Water:	1,2	1,4	1

Special Instructions NJPDES = Hg, Tl, As, Fe, Mg TSS MDL = ≤5 mg/L

Water Metals Filtered (Yes/No)? No

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	[illegible]	9/21/09 12:45	1) [signature]	TestAmerica
2)		/	2)	
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132)
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL 0016 (0408)

Attachment 3 – Analytical Testing for Imported Materials

Dense Grade Aggregate (DGA)

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: August 31, 2009	TRANSMITTAL NO. 2200-01

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 West Riser Tide Gate Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE	NO. OF	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See	FOR CE USE
		DRAWING OR BROCHURE NO.	COPIES	SPEC. PARA. NO.	DRAWING SHEET NO.			instruction No. 6)	CODE
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	DGA and other stone Test Results (Resubmittal of original data)	See attached	5	2.01				Yes	
2	Overburden Common Fill Test Results from Tilcon (Resubmittal of original data)	See attached	5	2.01				Yes	
3	Clean Sand Test Results from Amboy Aggregates (Resubmittal of original data)	See attached	5	2.01					

REMARKS

This was originally submitted under the Undeveloped Area (Cover sheets and Parsons comments attached)

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

JAY SOL STARK

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

PARSONS

TO: Richard Elia II Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305 CC. Ken Walanski, Leopoldo Perez, Dan Hoffner, Rick Rizzo	Letter of Transmittal - 039 Date: April 16, 2009 | Job No.: 445039 Ventron Velsicol Superfund Site OU-1 – Undeveloped Area Construction Wood-Ridge and Carlstadt, New Jersey Re: Submittal 2200-01

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐ Shop drawings	☐ Attached	☐ Under separate cover via _____ the following items:		
☐ Copy of Letter	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
☒ Submittals		☐ _____		

No. Copies	Description
one	Submittal 2200-01 DGA Common Fill ASTM 1557 Test Results, Grain Size Analysis and Analytical Data Report

Comments:

Based on the gradation and very low percentage of fines (6.4%), performance of the Atterberg Limits test is not applicable. Additionally, since the material originates from quarry processing of crushed stone, performance of an Organic Content test is also not applicable. No resubmission is required.

CONTRACTOR SUBMITTAL REVIEW

Reviewed – No Comments _____ ☐
Comments as Noted _____ 2200-01 _____ ☒
Revise & Resubmit _____ ☐
Not Subject to Review _____ ☐

The comments are provided by Parsons on behalf of Rohm and Haas. Contractor is responsible for complying with the requirements of the Construction Contract Documents including the submittal requirements. This review does not relieve Contractor of any responsibility for the completeness or correctness of detail or accuracy of any drawings or specifications; nor does this review represent any liability therefore on the part of Rohm and Haas or Parsons.

By Robert Swabsin Date April 16, 2009

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: April 15, 2009	TRANSMITTAL NO. 2200-01

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:		CHECK ONE:
PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal	PROJECT TITLE AND LOCATION:	CHECK ONE: THIS TRANSMITTAL IS FOR
Section 2200 Common Fill	Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey	☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO.	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO.	FOR CONTRACTOR USE CODE		VARIATION (See Instruction No. 6)	FOR CE USE CODE
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	DGA Common Fill ASTM 1557Test Results	Materials Testing	5	2.01				Yes	
2	DGA Common Fill Particle Size Distribution	Materials Testing	5	2.01				Yes	
3	Analytical Data Report	Waste Stream	5	2.01					

REMARKS

Variation: Moisture, Atterberg limits and organic content testing not applicable to this material

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

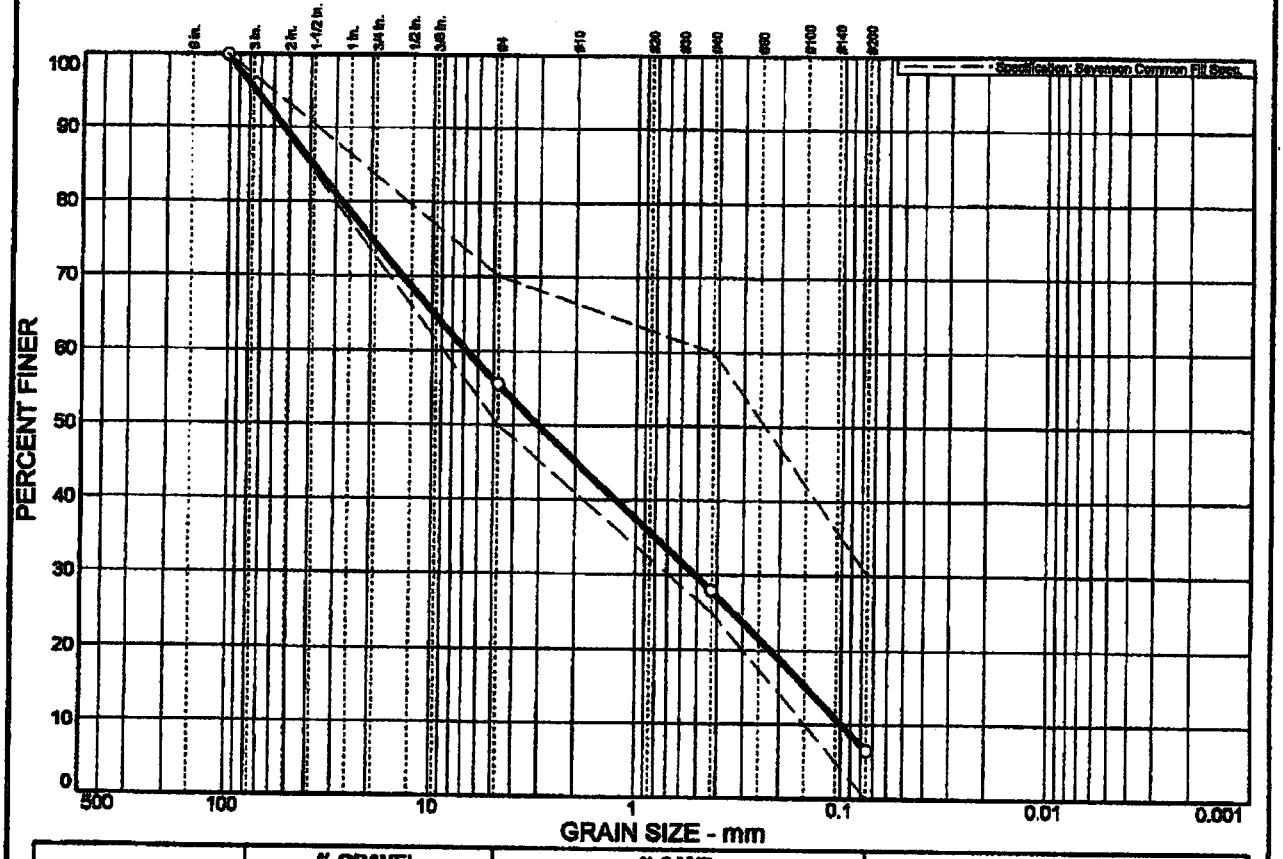
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
4.5	21.0	19.0	10.2	17.4	21.5	6.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
4 in.	100.0	100 - 100	
#4	55.5	50 - 70	
#40	27.9	25 - 60	
#200	6.4	0 - 30	

* Sevenson Common Fill Spec.

Soil Description

Gray poorly graded sand with silt and gravel.

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 38.4 D_{60}= 6.74 D_{50}= 3.02
D_{30}= 0.510 D_{15}= 0.148 D_{10}= 0.0995
C_u= 67.79 C_c= 0.39

Classification

USCS= SP-SM AASHTO=

Remarks

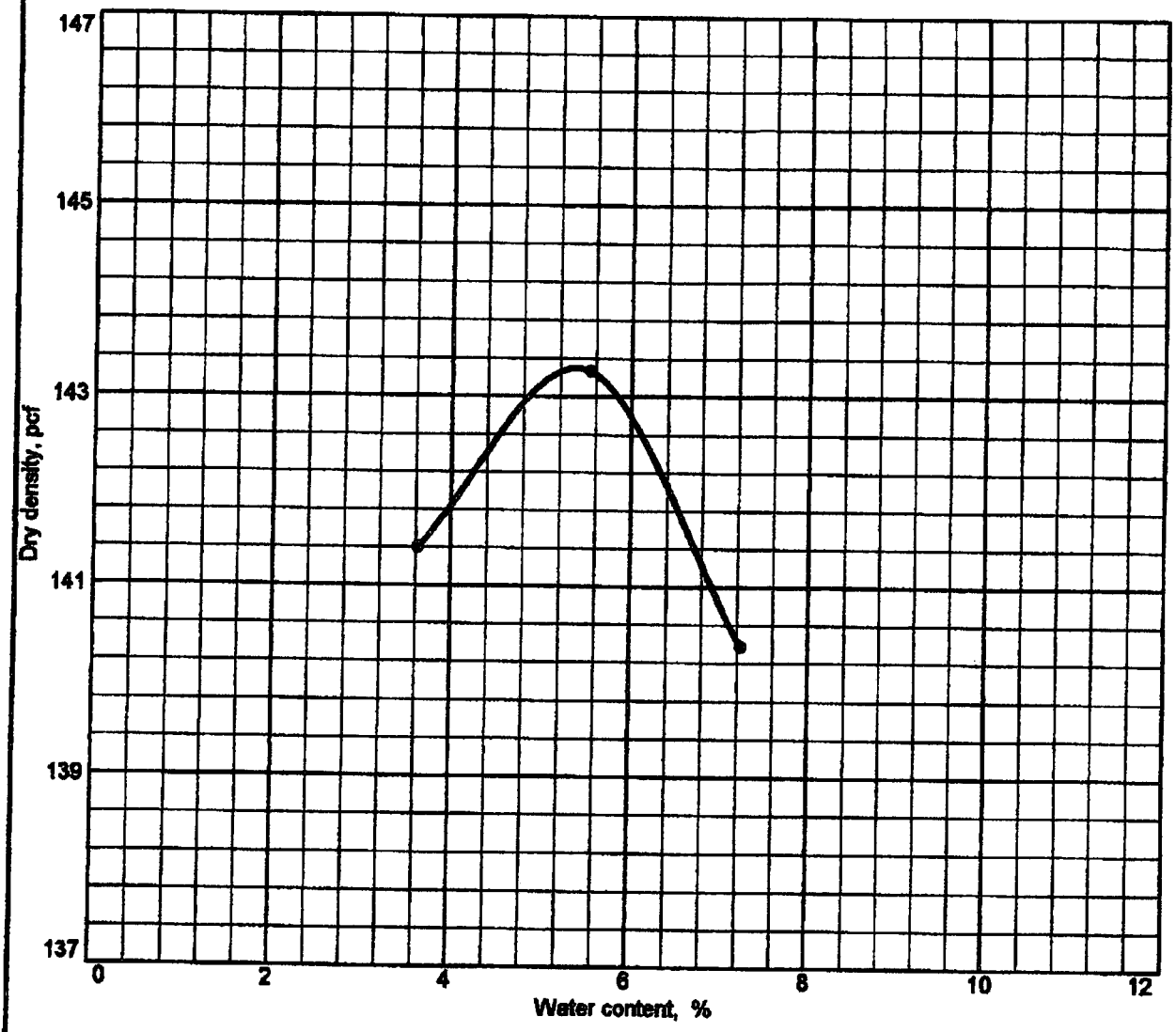
Sample Meets Specifications for common fill.
F.M.=0.44

Sample No.: S-5480 A **Source of Sample:** Ventron Superfund Site **Date:** 4/10/9
Location: Tilcon DGA Material **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5480 A

COMPACTION TEST REPORT



Test specification: ASTM D 1557-91 Procedure C Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	SP-SM						25.5	6.4

TEST RESULTS

Maximum dry density = 143.3 pcf

Optimum moisture = 5.4 %

MATERIAL DESCRIPTION

Gray poorly graded sand with silt and gravel.

Project No. **Client:** Sevenson Environmental

Project: Ventron/ Velsicol Superfund Site

● **Location:** Tilcon DGA Material

Remarks:

COMPACTION TEST REPORT

MATERIALS TESTING, INC.

MTI # S-5480 A

WASTE STREAM TECHNOLOGY, INC.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 03/26/09
Work Order Number: 9C19004

Prepared For
Rick Elia Jr.
Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302
Fax: (716) 285-4201

Site: Ventron-Velsicol 1008

Enclosed are the results of analyses for samples received by the laboratory on 03/19/09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068

nson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	03/26/09 11:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Road - Staging Material	9C19004-01	Soil	03/18/09 14:30	03/19/09 09:00

nson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	03/26/09 11:28

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil	**Sampled: 03/18/09 14:30 Received: 03/19/09 09:00**								
Silver	ND	2.50	mg/kg dry	5	AC91914	03/19/09	03/20/09	EPA 6010B	
Aluminum	**3850**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	03/20/09	"	
Barium	**17.3**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	03/20/09	"	
Cadmium	ND	5.00	"	"	"	"	03/20/09	"	
Cobalt	**21.0**	5.00	"	"	"	"	"	"	
Chromium	**33.8**	5.00	"	"	"	"	03/20/09	"	
Copper	**34.4**	5.00	"	"	"	"	"	"	
Mercury	ND	0.012	"	1	AC92502	03/25/09	03/25/09	EPA 7471A	
Manganese	**103**	5.00	"	5	AC91914	03/19/09	03/20/09	EPA 6010B	
Nickel	**101**	5.00	"	"	"	"	"	"	
Lead	ND	20.5	"	"	"	"	03/20/09	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
V dium	**15.2**	5.00	"	"	"	"	03/20/09	"	
	ND	20.0	"	"	"	"	03/20/09	"	

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil	**Sampled: 03/18/09 14:30**		**Received: 03/19/09 09:00**						
Alpha-BHC	ND	0.400	ug/kg dry	1	AC92401	03/24/09	03/24/09	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
oxychlor	ND	0.400	"	"	"	"	"	"	U
hlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*93.6 %*	*74-133*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*88.7 %*	*61-133*		"	"	"	"	

...nson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	03/26/09 11:28

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil	**Sampled: 03/18/09 14:30**	**Received: 03/19/09 09:00**							
dichlorodifluoromethane	ND	10	ug/kg dry	1	AC92001	03/20/09	03/20/09	8260B	U
chloromethane	ND	10	"	"	"	"	"	"	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
trichlorofluoromethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	ND	10	"	"	"	"	"	"	U
carbon disulfide	ND	2	"	"	"	"	"	"	U
methylene chloride	**35**	2	"	"	"	"	"	"	B
Methyl tert-butyl ether	ND	2	"	"	"	"	"	"	U
Acrylonitrile	ND	10	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
2-butanone	ND	10	"	"	"	"	"	"	U
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
...oform	ND	2	"	"	"	"	"	"	U
...richloroethane	ND	2	"	"	"	"	"	"	U
...arbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	ND	2	"	"	"	"	"	"	U
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	ND	2	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
1,2-dibromoethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
1,1,1,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
ethylbenzene	ND	2	"	"	"	"	"	"	U
m,p-xylene	ND	4	"	"	"	"	"	"	U
o-xylene	ND	2	"	"	"	"	"	"	U
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
Acrolein	ND	10	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Methyl Acetate	ND	10	"	"	"	"	"	"	U

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil Sampled: 03/18/09 14:30 Received: 03/19/09 09:00									
Tert-butyl alcohol	ND	100	ug/kg dry	1	AC92001	03/20/09	03/20/09	8260B	U
1,2-dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*92.3 %*	*79-120*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*81-118*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85-104*		"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*	*77-117*		"	"	"	"	

nson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	03/26/09 11:28

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil	**Sampled: 03/18/09 14:30 Received: 03/19/09 09:00**								
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AC92014	03/20/09	03/25/09	8270C	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2 imethylphenol	ND	130	"	"	"	"	"	"	U
-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil Sampled: 03/18/09 14:30 Received: 03/19/09 09:00									
Diethyl phthalate	ND	67	ug/kg dry	1	AC92014	03/20/09	03/25/09	8270C	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	ND	67	"	"	"	"	"	"	U
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	ND	67	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
P[illegible](a) anthracene	ND	67	"	"	"	"	"	"	U
[illegible]ene	ND	67	"	"	"	"	"	"	U
[illegible]is(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Acetophenone	ND	67	"	"	"	"	"	"	U
Caprolactam	ND	67	"	"	"	"	"	"	U
1,1'-Biphenyl	ND	67	"	"	"	"	"	"	U
Atrazine	ND	67	"	"	"	"	"	"	U
Benzaldehyde	ND	67	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*54.4 %*	*43-104*		"	"	"	"	
Surrogate: Phenol-d6		*73.6 %*	*52-109*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*72.5 %*	*52-111*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*69.2 %*	*60-111*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*61.0 %*	*46-130*		"	"	"	"	
Surrogate: Terphenyl-d14		*74.4 %*	*36-139*		"	"	"	"	

enson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	03/26/09 11:28

Conventional Chemistry Parameters by EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Road - Staging Material (9C19004-01) Soil	**Sampled: 03/18/09 14:30 Received: 03/19/09 09:00**								
Cyanide (total)	ND	0.50	mg/kg dry	1	AC92319	03/23/09	03/23/09	EPA 9014	
% Solids	**95.4**	0.1	%	"	AC92002	03/19/09	03/20/09	% calculation	

The results in this report apply to the samples as received by the laboratory and analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the reporting limit
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 9C19004
DUE DATE

PAGE 1 OF 1

TURN AROUND TIME: 5 day
QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements

Is a QC Package required: YES NO
If yes please attach requirements

REPORT TO: Silverman
Ventron/Velsicol superfund
5 Park Pl E
Wood Ridge, NJ 07075
CONTACT: Dave Burger
PH. # (508) 333 0019
FAX # ( )

BILL TO: Stevenson #1009
Ventron/Velsicol
PO #: 153761
PROJECT DESCRIPTION:
SAMPLER SIGNATURE: David E Burger

DW DRINKING WATER · GW GROUND WATER · SW SURFACE WATER · WW WASTE WATER · O OIL
SL SLUDGE · SO SOIL · S SOLID · W WIPE · OTHER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	TAL + Cyanide	TCL								TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	Road A (Road, Staging, 3 staging)	3-18	2:30	Grab	1	✓	✓								16 oz	01
2	Road B	3-18	2:30	Grab	1	✓	✓								4 oz	
3	staging A	3-18	2:30	Grab	1	✓	✓								4 oz Recvd Broken	
4	staging B	3-18	2:30	Grab	1	✓	✓								16 oz	
5																
6																
7																
8																
9																
10																

REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
Dave Burger	3/18/09	3 PM	UPS	3/18/00	3 PM
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY: Joe G	3/19/09	09:00

Tilcon Overburden and East Coast Overburden

PARSONS

TO: Richard Elia II Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305 CC. Ken Walanski, Leopoldo Perez, Dan Hoffner, Rick Rizzo	Letter of Transmittal - 066 Date: June 11, 2009 | Job No.: 445039 Ventron Velsicol Superfund Site OU-1 – Undeveloped Area Construction Wood-Ridge and Carlstadt, New Jersey Re: Submittal 2200-02

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐ Shop drawings	☐ Attached	☐ Under separate cover via _____ the following items:		
☐ Copy of Letter	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
☒ Submittals		☐ _____		

No. Copies	Description
one	**Submittal 2200-02: Tilcon Overburden and East Coast-Stavola Overburden Test Reports.**

Comments:

Tilcon Overburden: This material is suitable for use as common fill in both the 55-foot buffer and as backfill for the excavations provided all aggregate (rock fragments) 6-inches or larger in diameter are removed from the fill prior to placement.

East Coast - Stavola Overburden: Due to the excessive amount of fines (silt and clay) in this sample, it is expected that these materials will be difficult to place if they become wet. Compaction to a firm subgrade in excavation areas will also be difficult if these materials are on the wet side of their optimal moisture content. These types of soils do not readily dry so it is not expected that they could be moisture conditioned (i.e., dried) on-site before use. These materials should not be used as common fill.

CONTRACTOR SUBMITTAL REVIEW

Reviewed – No Comments ☐
Comments as Noted ☒
Revise & Resubmit ☐
Not Subject to Review ☐

The comments are provided by Parsons on behalf of Rohm and Haas. Contractor is responsible for complying with the requirements of the Construction Contract Documents including the submittal requirements. This review does not relieve Contractor of any responsibility for the completeness or correctness of detail or accuracy of any drawings or specifications; nor does this review represent any liability therefore on the part of Rohm and Haas or Parsons.

By Robert Swabsin Date June 11, 2009

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: June 2, 2009	TRANSMITTAL NO. 2200-02

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:		CHECK ONE:
PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal	PROJECT TITLE AND LOCATION:	CHECK ONE: THIS TRANSMITTAL IS
Section 2200 Common Fill	Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey	FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO.	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO.	FOR CONTRACTOR USE CODE		VARIATION (See Instruction No. 6)	FOR CE USE CODE
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	Tilcon Overburden Test Report	MTI # S-5495	5	2.01A				Yes	
2	East Coast – Stavola Overburden Test Report	MTI # S-5496	5	2.01A				Yes	

REMARKS

Test results are for particle size distribution
Neither sample meets the specification for common fill. Sevenson requests a variation to use these materials as common fill for both in the Buffer Zone and as excavation area common fill.

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

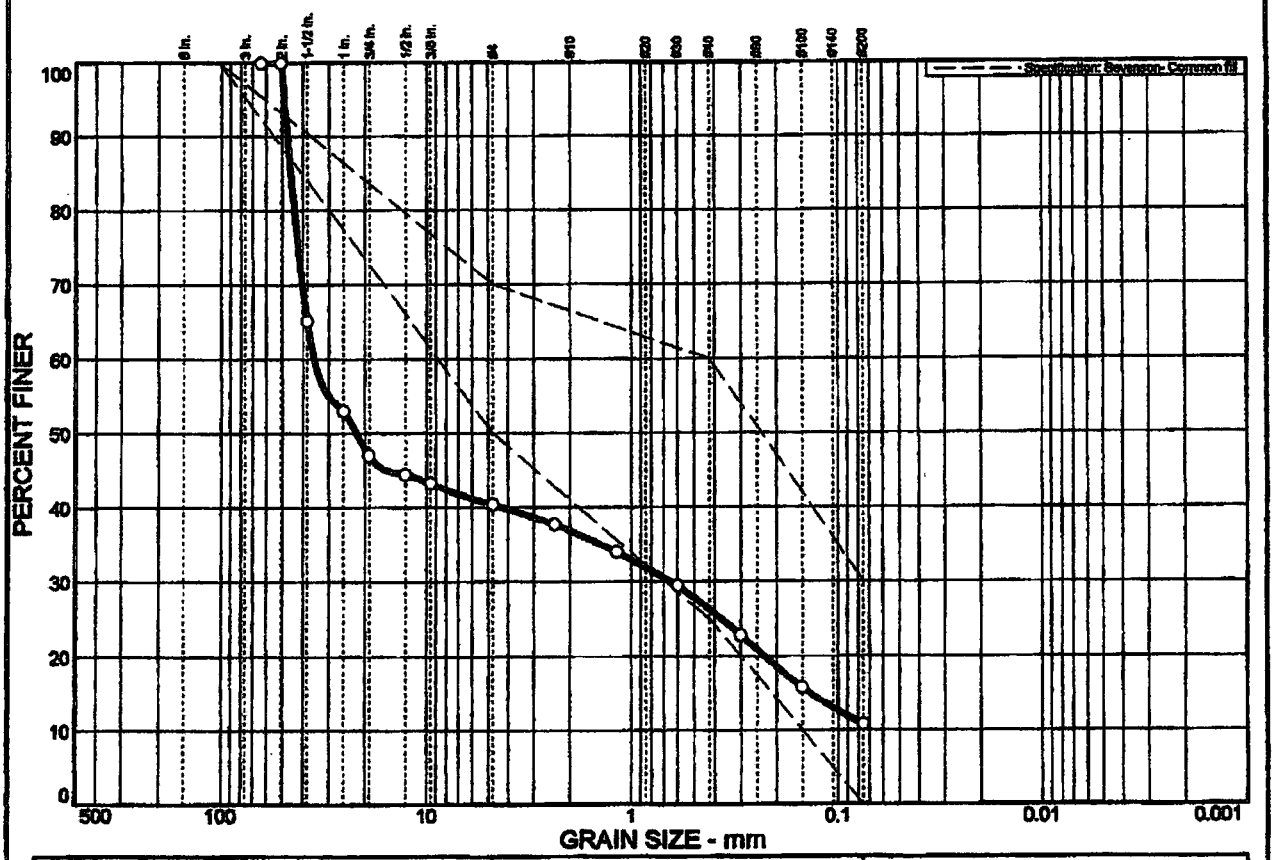
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	53.0	6.6	3.5	10.6	15.6	10.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	65.1		
1.0 in.	53.0		
3/4 in.	47.0		
1/2 in.	44.5		
3/8 in.	43.3		
#4	40.4	50 - 70	X
#8	37.7		
#16	34.0		
#30	29.4		
#50	22.8		
#100	15.7		
#200	10.7	0 - 30	

* Sevenson- Common fill

Soil Description

Brown Poorly graded gravel with silt and sand.

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 45.6 D_{60}= 35.2 D_{50}= 21.9
D_{30}= 0.647 D_{15}= 0.138 D_{10}=
C_u= C_c=

Classification

USCS= GP-GM AASHTO=

Remarks

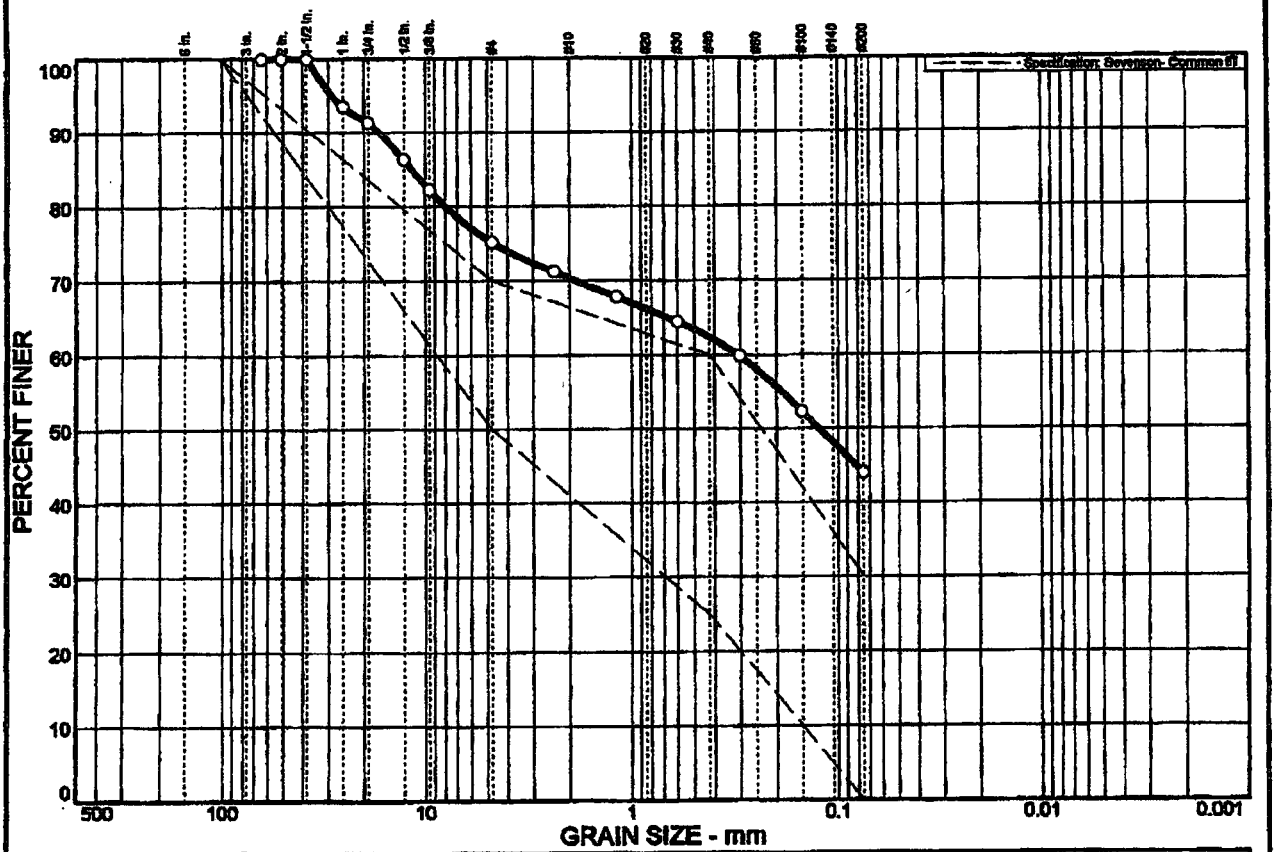
Sample Fails Specifications For Common Fill.
F.M.=5.65

Sample No.: S-5495 **Source of Sample:** Ventron Superfund Site **Date:** 6/01/09
Location: Tilcon Overburden- Woodridge **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5495

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	8.7	16.1	4.8	7.9	18.5	44.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	93.5		
3/4 in.	91.3		
1/2 in.	86.3		
3/8 in.	82.3		
#4	75.2	50 - 70	X
#8	71.2		
#16	67.8		
#30	64.5		
#50	59.8		
#100	52.3		
#200	44.0	0 - 30	X

* Sevenson- Common fill

Soil Description

Reddish brown silty sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 11.6 D_{60}= 0.307 D_{50}= 0.124
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Sample Fails Specifications for Common fill.
F.M.=2.36

Sample No.: S-5496 **Source of Sample:** Ventron Superfund Site **Date:** 6/1/09
Location: Stavola- Overburden- East Coast Common Fill **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5496

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: June 2, 2009	TRANSMITTAL NO. 2200-02

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:		
PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal	PROJECT TITLE AND LOCATION:	CHECK ONE: THIS TRANSMITTAL IS
Section 2200 Common Fill	Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey	FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO.	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO.	FOR CONTRACTOR USE CODE		VARIATION (See Instruction No. 6)	FOR CE USE CODE
a.	b.	c.	d.	e.	f.	g.		h.	i.
1	Tilcon Overburden Test Report	MTI # S-5495	5	2.01A				Yes	
2	East Coast – Stavola Overburden Test Report	MTI # S-5496	5	2.01A				Yes	

REMARKS

Test results are for particle size distribution
Neither sample meets the specification for common fill. Sevenson requests a variation to use these materials as common fill for both in the Buffer Zone and as excavation area common fill.

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

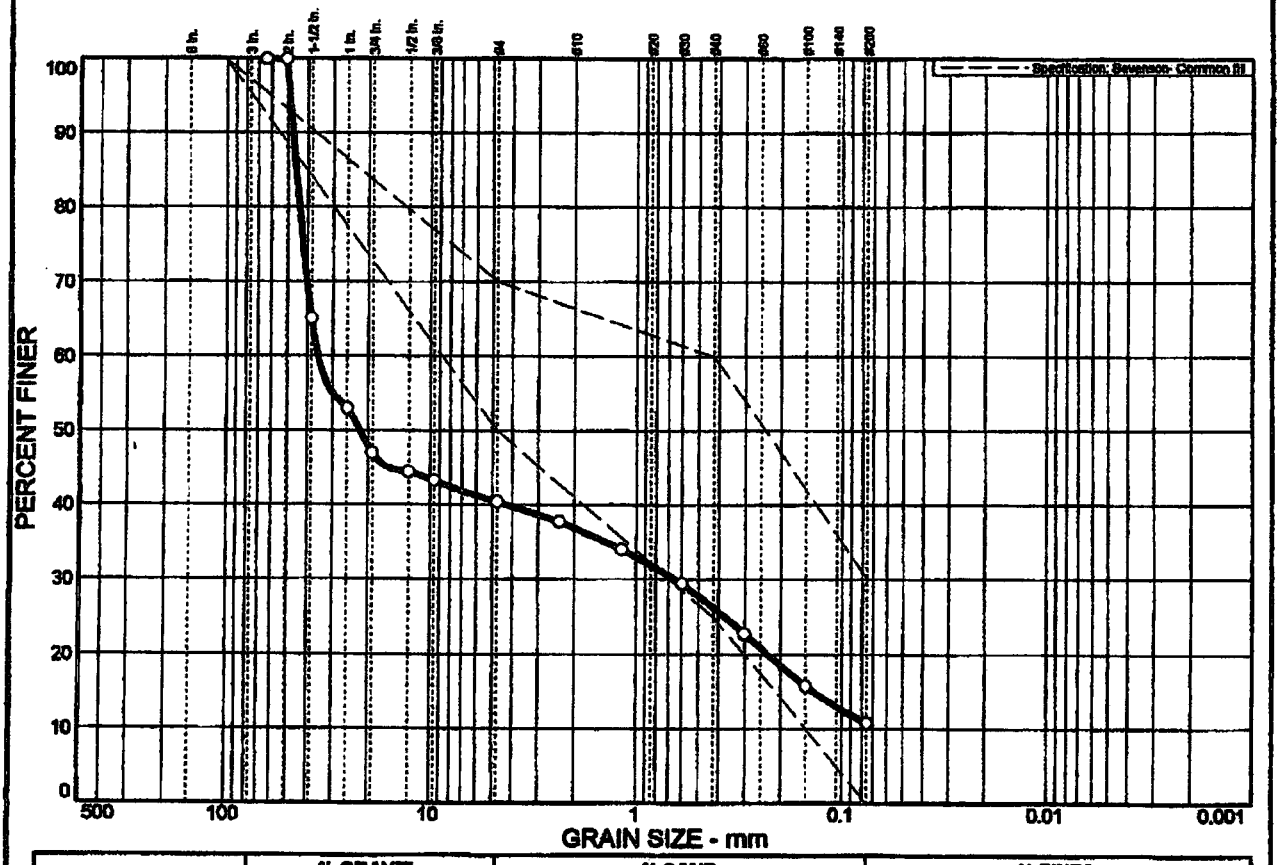
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	53.0	6.6	3.5	10.6	15.6	10.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	65.1		
1.0 in.	53.0		
3/4 in.	47.0		
1/2 in.	44.5		
3/8 in.	43.3		
#4	40.4	50 - 70	X
#8	37.7		
#16	34.0		
#30	29.4		
#50	22.8		
#100	15.7		
#200	10.7	0 - 30	

* Sevenson- Common fill

Soil Description

Brown Poorly graded gravel with silt and sand.

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 45.6 D_{60}= 35.2 D_{50}= 21.9
D_{30}= 0.647 D_{15}= 0.138 D_{10}=
C_u= C_c=

Classification

USCS= GP-GM AASHTO=

Remarks

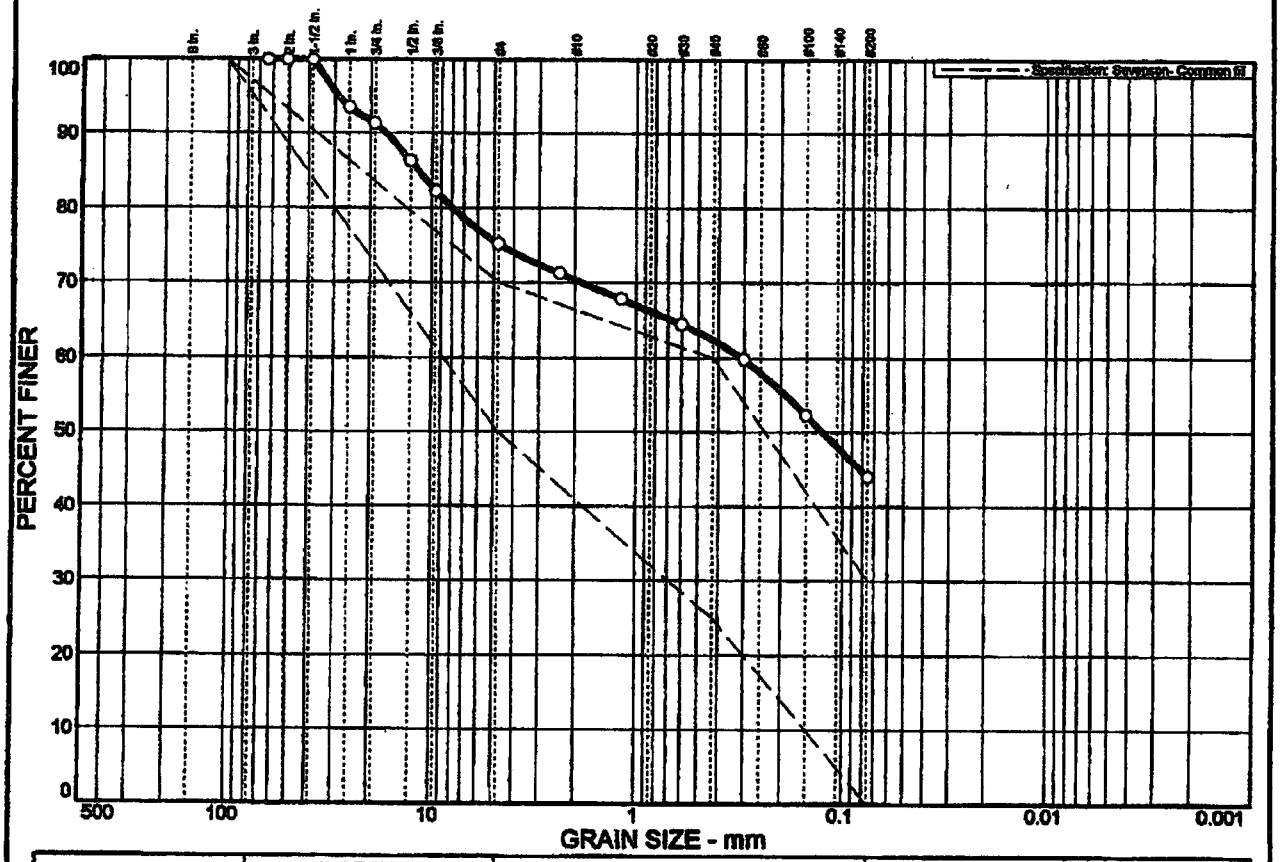
Sample Fails Specifications For Common Fill.
F.M.=5.65

Sample No.: S-5495 **Source of Sample:** Ventron Superfund Site **Date:** 6/01/09
Location: Tilcon Overburden- Woodridge **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5495

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	8.7	16.1	4.8	7.9	18.5	44.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	93.5		
3/4 in.	91.3		
1/2 in.	86.3		
3/8 in.	82.3		
#4	75.2	50 - 70	X
#8	71.2		
#16	67.8		
#30	64.5		
#50	59.8		
#100	52.3		
#200	44.0	0 - 30	X

* Sevenson- Common fill

Soil Description

Reddish brown silty sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 11.6 D_{60}= 0.307 D_{50}= 0.124
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Sample Fails Specifications for Common fill.
F.M.=2.36

Sample No.: S-5496 **Source of Sample:** Ventron Superfund Site **Date:** 6/1/09
Location: Stavola- Overburden- East Coast Common Fill **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5496

PARSONS

TO: Richard Elia II Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305 CC. Ken Walanski, Leopoldo Perez, Dan Hoffner, Rick Rizzo	Letter of Transmittal - 067 Date: June 11, 2009 | Job No.: 445039 Ventron Velsicol Superfund Site OU-1 – Undeveloped Area Construction Wood-Ridge and Carlstadt, New Jersey Re: Submittal 2200-02.1

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐ Shop drawings	☐ Attached	☐ Under separate cover via _____ the following items:		
☐ Copy of Letter	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
☒ Submittals		☐ _____		

No. Copies	Description
one	**Submittal 2200-02: Tilcon Overburden and East Coast-Stavola Overburden Analytical Test Reports.**

Comments:

Both the Tilcon Overburden and Stavola Quarry common fill samples meet the RDCSCC as listed in the NJDEP Cleanup Standards for Contaminated Sites table last updated 5/12/99 (link: http://www.nj.gov/dep/srp/guidance/scc/), we have been using the values listed in this table to determine the acceptability of a offsite fill source.

No Further Resubmission is Required

CONTRACTOR SUBMITTAL REVIEW

Reviewed – No Comments _____ ☐
Comments as Noted _____ 2200-02.1 _____ ☒
Revise & Resubmit _____ ☐
Not Subject to Review _____ ☐

The comments are provided by Parsons on behalf of Rohm and Haas. Contractor is responsible for complying with the requirements of the Construction Contract Documents including the submittal requirements. This review does not relieve Contractor of any responsibility for the completeness or correctness of detail or accuracy of any drawings or specifications; nor does this review represent any liability therefore on the part of Rohm and Haas or Parsons.

By Robert Swabsin Date June 11, 2009

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: June 5, 2009	TRANSMITTAL NO. 2200-02.1

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO.	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO.	FOR CONTRACTOR USE CODE		VARIATION (See Instruction No. 6)	FOR CE USE CODE
a.	b.	c.	d.	e.	f.	g.		h.	i.
1	Tilcon Overburden Chemical Test Report	Waste Stream	5	2.01A				None	
2	East Coast – Stavola Overburden Test Report	Waste Stream	5	2.01A				Yes	

REMARKS

East Coast material high for vanadium

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

WASTE STREAM TECHNOLOGY, INC.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 06/08/09
Work Order Number: 9F02003

Prepared For
Rick Elia Jr.

Sevenson Environmental Services

2749 Lockport Road

Niagara Falls, NY 14302

Fax: (716) 285-4201

Site: Ventron-Velsicol 1008

Enclosed are the results of analyses for samples received by the laboratory on 06/02/09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tilcon Overburden	9F02003-01	Soil	06/01/09 14:00	06/02/09 09:15
East Coast Overburden	9F02003-02	Soil	06/01/09 14:00	06/02/09 09:15

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon Overburden (9F02003-01) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Silver	ND	0.50	mg/kg dry	1	AF90210	06/02/09	06/03/09	EPA 6010B	
Aluminum	7280	2.50	"	"	"	"	"	"	
Arsenic	3.03	1.70	"	"	"	"	06/03/09	"	
Barium	25.7	1.00	"	"	"	"	06/03/09	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Cobalt	5.05	1.00	"	"	"	"	06/03/09	"	
Chromium	7.19	1.00	"	"	"	"	06/03/09	"	
Copper	10.2	1.00	"	"	"	"	"	"	
Mercury	0.012	0.012	"	"	AF90402	06/04/09	06/04/09	EPA 7471A	
Manganese	167	1.00	"	"	AF90210	06/02/09	06/03/09	EPA 6010B	
Nickel	6.97	1.00	"	"	"	"	06/03/09	"	
Lead	ND	4.10	"	"	"	"	"	"	
Antimony	ND	1.40	"	"	"	"	"	"	
Selenium	ND	1.40	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
Vanadium	13.6	1.00	"	"	"	"	06/03/09	"	
Zinc	13.6	4.00	"	"	"	"	06/03/09	"	
East Coast Overburden (9F02003-02) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Silver	ND	2.50	mg/kg dry	5	AF90210	06/02/09	06/05/09	EPA 6010B	
Aluminum	32200	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	U
Barium	87.2	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	39.2	5.00	"	"	"	"	"	"	
Chromium	175	5.00	"	"	"	"	"	"	
Copper	164	5.00	"	"	"	"	"	"	
Mercury	0.017	0.012	"	1	AF90402	06/04/09	06/04/09	EPA 7471A	
Manganese	1080	5.00	"	5	AF90210	06/02/09	06/05/09	EPA 6010B	
Nickel	68.3	5.00	"	"	"	"	"	"	
Lead	ND	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	131	5.00	"	"	"	"	"	"	
Zinc	62.4	20.0	"	"	"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon Overburden (9F02003-01) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Alpha-BHC	ND	0.400	ug/kg dry	1	AF90316	06/03/09	06/04/09	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*111 %*	*82-123*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*126 %*	*56-132*		"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Coast Overburden (9F02003-02) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Alpha-BHC	ND	0.400	ug/kg dry	1	AF90316	06/03/09	06/04/09	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*100 %*		*82-123*		"	"	"	
Surrogate: Decachlorobiphenyl		*117 %*		*56-132*		"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon Overburden (9F02003-01) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
dichlorodifluoromethane	ND	10	ug/kg dry	1	AF90306	06/03/09	06/03/09	8260B	U
chloromethane	ND	10	"	"	"	"	"	"	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
trichlorofluoromethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	ND	10	"	"	"	"	"	"	U
carbon disulfide	ND	2	"	"	"	"	"	"	U
methylene chloride	6	2	"	"	"	"	"	"	B
Methyl tert-butyl ether	ND	2	"	"	"	"	"	"	U
Acrylonitrile	ND	10	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
2-butanone	ND	10	"	"	"	"	"	"	U
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	ND	2	"	"	"	"	"	"	U
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	ND	2	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
1,2-dibromoethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
1,1,1,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
ethylbenzene	ND	2	"	"	"	"	"	"	U
m,p-xylene	ND	4	"	"	"	"	"	"	U
o-xylene	ND	2	"	"	"	"	"	"	U
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
Acrolein	ND	10	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Methyl Acetate	ND	10	"	"	"	"	"	"	U

Severson Environmental Services	Project:	Ventron-Velsicol	
2749 Lockport Road	Project Number:	Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager:	Rick Elia Jr.	06/08/09 09:50

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon Overburden (9F02003-01) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Tert-butyl alcohol	ND	100	ug/kg dry	1	AF90306	06/03/09	06/03/09	8260B	U
1,2-dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*93.5 %*		*78-115*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*		*79-118*	"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*		*84-110*	"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*		*81-118*	"	"	"	"	
East Coast Overburden (9F02003-02) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
dichlorodifluoromethane	ND	10	ug/kg dry	1	AF90306	06/03/09	06/03/09	8260B	U
chloromethane	ND	10	"	"	"	"	"	"	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
trichlorofluoromethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	ND	10	"	"	"	"	"	"	U
carbon disulfide	ND	2	"	"	"	"	"	"	U
methylene chloride	6	2	"	"	"	"	"	"	B
Methyl tert-butyl ether	ND	2	"	"	"	"	"	"	U
Acrylonitrile	ND	10	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
2-butanone	ND	10	"	"	"	"	"	"	U
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	ND	2	"	"	"	"	"	"	U
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	ND	2	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
1,2-dibromoethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
1,1,1,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Coast Overburden (9F02803-02) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
ethylbenzene	ND	2	ug/kg dry	1	AF90306	06/03/09	06/03/09	8260B	U
m,p-xylene	ND	4	"	"	"	"	"	"	U
o-xylene	ND	2	"	"	"	"	"	"	U
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
Acrolein	ND	10	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Methyl Acetate	ND	10	"	"	"	"	"	"	U
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	U
1,2-dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*95.2 %*		*78-115*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*		*79-118*	"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*		*84-110*	"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*		*81-118*	"	"	"	"	

Stevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon Overburden (9F02003-01) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AF90308	06/03/09	06/04/09	8270C	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon Overburden (9F02003-01) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Diethyl phthalate	ND	67	ug/kg dry	1	AP90308	06/03/09	06/04/09	8270C	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	ND	67	"	"	"	"	"	"	U
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	ND	67	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	U
Chrysene	ND	67	"	"	"	"	"	"	U
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Acetophenone	ND	67	"	"	"	"	"	"	U
Caprolactam	ND	67	"	"	"	"	"	"	U
1,1'-Biphenyl	ND	67	"	"	"	"	"	"	U
Atrazine	ND	67	"	"	"	"	"	"	U
Benzaldehyde	ND	67	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*91.3 %*	*59-101*	"	"	"	"		
Surrogate: Phenol-d6		*98.1 %*	*64-105*	"	"	"	"		
Surrogate: Nitrobenzene-d5		*81.2 %*	*58-105*	"	"	"	"		
Surrogate: 2-Fluorobiphenyl		*89.1 %*	*67-101*	"	"	"	"		
Surrogate: 2,4,6-Tribromophenol		*92.5 %*	*63-108*	"	"	"	"		
Surrogate: Terphenyl-d14		*84.5 %*	*38-133*	"	"	"	"		

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Coast Overburden (9F02003-02) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AF90308	06/03/09	06/04/09	8270C	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Severson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	06/08/09 09:50

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Coast Overburden (9F02003-02) Soil Sampled: 06/01/09 14:00 Received: 06/02/09 09:15									
Diethyl phthalate	ND	67	ug/kg dry	1	AF90308	06/03/09	06/04/09	8270C	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	ND	67	"	"	"	"	"	"	U
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	ND	67	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	U
rysene	ND	67	"	"	"	"	"	"	U
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Acetophenone	ND	67	"	"	"	"	"	"	U
Caprolactam	ND	67	"	"	"	"	"	"	U
1,1'-Biphenyl	ND	67	"	"	"	"	"	"	U
Atrazine	ND	67	"	"	"	"	"	"	U
Benzaldehyde	ND	67	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*86.2 %*	*59-101*	"	"	"	"		
Surrogate: Phenol-d6		*93.1 %*	*64-105*	"	"	"	"		
Surrogate: Nitrobenzene-d5		*77.2 %*	*58-105*	"	"	"	"		
Surrogate: 2-Fluorobiphenyl		*86.5 %*	*67-101*	"	"	"	"		
Surrogate: 2,4,6-Tribromophenol		*85.7 %*	*63-108*	"	"	"	"		
Surrogate: Terphenyl-d14		*82.0 %*	*38-133*	"	"	"	"		

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 · FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 9F03003
DUE DATE

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements

Is a QC Package required: YES NO
If yes please attach requirements.

TURN AROUND TIME: 3 day
QUOTATION NUMBER:

DW DRINKING WATER · GW GROUND WATER · SW SURFACE WATER · WW WASTE WATER · O OIL · SL SLUDGE · SO SOIL · S SOLID · W WIPE · OTHER

REPORT TO:
Sevenson Environ
Job 10038
Wood-Ridge NJ
CONTACT Rick Rizzo
PH. # ( ) 201 933 0019
FAX # ( ) 201 933 1996
BILL TO:
Sevenson
Niagara Falls NY
PO # 10038004
PROJECT DESCRIPTION
Ventron - Velsicol
SAMPLER SIGNATURE

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	NJ DEP Clean Soil										TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	Tilcon Overburden	6/1	14[illegible]	SO	1	✓										Large Jar	01
2	Tilcon Overburden	6/1	14:[illegible]	SO	1	✓										Small Jar	
3	East Coast Overbur	6/1	14[illegible]	SO	2	✓										Large Jar	02
4	East Coast Overbur	6/1	14:[illegible]	SO	1	✓										Small Jar	
5																	
6																	
7																	
8																	
9																	
10																	

REMARKS:
New Jersey Clean Soil Sample

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
	6/1 /09	2:00		6/2/09	09:15
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY:	DATE: / /	TIME:

PARSONS

TO: Richard Elia II Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305 CC. Ken Walanski, Leopoldo Perez, Dan Hoffner, Rick Rizzo	Letter of Transmittal - 040 Date: April 20, 2009 | Job No.: 445039 Ventron Velsicol Superfund Site OU-1 – Undeveloped Area Construction Wood-Ridge and Carlstadt, New Jersey Re: Submittal 2200-03

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐ Shop drawings	☐ Attached	☐ Under separate cover via _____ the following items:		
☐ Copy of Letter	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
☒ Submittals		☐ _____		

No. Copies	Description
one	Submittal 2200-03 Utility Sand and Surge Stone Clean Source Statement

Comments:

Reviewed, no comment.

CONTRACTOR SUBMITTAL REVIEW

Reviewed – No Comments _____ 2100-03 _____ ☐
Comments as Noted _____ ☒
Revise & Resubmit _____ ☐
Not Subject to Review _____ ☐

The comments are provided by Parsons on behalf of Rohm and Haas. Contractor is responsible for complying with the requirements of the Construction Contract Documents including the submittal requirements. This review does not relieve Contractor of any responsibility for the completeness or correctness of detail or accuracy of any drawings or specifications; nor does this review represent any liability therefore on the part of Rohm and Haas or Parsons.

By Anthony Bernardi Date April 20, 2009

TRANSMITTAL OF SHOP DRAWINGS; EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: March 28, 2008	TRANSMITTAL NO. 2100 - 03

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 100 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL. ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal) Section 2100	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey	CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL.

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO.	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO.	FOR CONTRACTOR USE CODE	VARIATION (See Instruction No. 6)	FOR CE USE CODE
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Utility Sand	Tilcon Statement	5	1.03 A			None	
2	Surge Stone	Tilcon Statement	5	1.03A			None	

REMARKS

Tilcon's statement that both materials are quarried from virgin sources.
Sand is to be used in sand bags
Surge stone is to be used to construct temporary roadways

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Tilcon Nj - Pompton Lakes Quarry

July. 2007

Surge

Tilcon-NJ confirms that the Rip Rap available at Pompton Quarry Conforms to the quality requirements of section 901 of ***The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction***. It is defined as virgin Gneiss mined at Pompton Quarry, Broad Street, Blk 60-Lot 60.01-60.02, Borough of Pompton Lakes, Passaic County NJ. The material is identified on the job with Tilcon NY delivery tickets.
This Rip Rap has the following properties:

Sodium Sulfate Soundness (ASTM C88)	2.0% Loss
Water Absorption (ASTM C97)	0.60%
LA Abrasion (ASTM-C535)	22.80%
Bulk Specific Gravity (ASTM-C97)	2.7
Freeze-Thaw Test (ASTM-T103)	2.4% Loss

And the following Gradation

D_{100}	15
D_{50}	10
D_{10}	5

If you have anyquestions or concerns, please call.

(973)-366-3740
Central Materials Lab
Tilcon, NJ

TILCON-NY **Mt. Hope Quarry** Fax 973-989-0178

625 Mount Hope Rd. • Wharton, N.J. 07946 • 973-366-7741

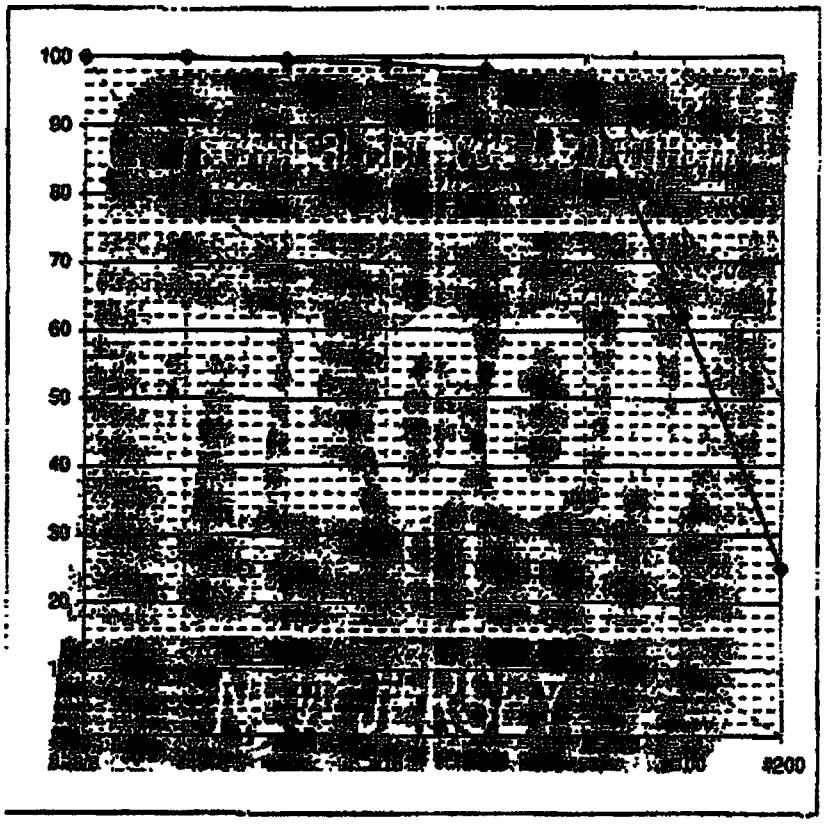
Typical Gradation,Utility Sand

Project
Veltron Site Woodridge, NJ

Contractor
Severson Environmental

Sp. Gr	
Loose	95.7
Rodded	104

	Typical	Prod. Target	
	% Pass	Low	High
3/8	100	100	100
#4	100	80	100
#8	98.5	70	100
#16	89	30	100
#30	68	20	100
#50	35	15	100
#100	82	10	75
#200	25		50



Tilcon Inc confirms that Utility Sand available at Mt. Hope Quarry conforms to section 901 of the ***New Jersey Department of Transportation StandardSpecifications for Road and Bridge Construction.*** The material is defined as virgin Gneiss mined at Mt. Hope Quarry, 625 Mount Hope Road, Block 20001-Lot 6.01 Wharton Borough, Morris County NJ. The material is identified on the job with Tilcon delivery tickets.

The unit weights and voids are for process control and should be verified by the contractor before use.

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: March 11 , 2009	TRANSMITTAL NO. 2200 - 06

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal) Section 2200	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey	CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE / DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See Instruction No. 6)	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.				
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	1 -1/2" Washed Stone Gradation / Source Statement	Tilcon Statement	4	2.01. E.4				None	

REMARKS

Stone to be used for temporary infiltration basin

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

TILCON-NY Pompton Lakes Quarry Fax 973-989-0178

BROAD STREET • POMPTON LAKES, N.J. • 973-366-7741

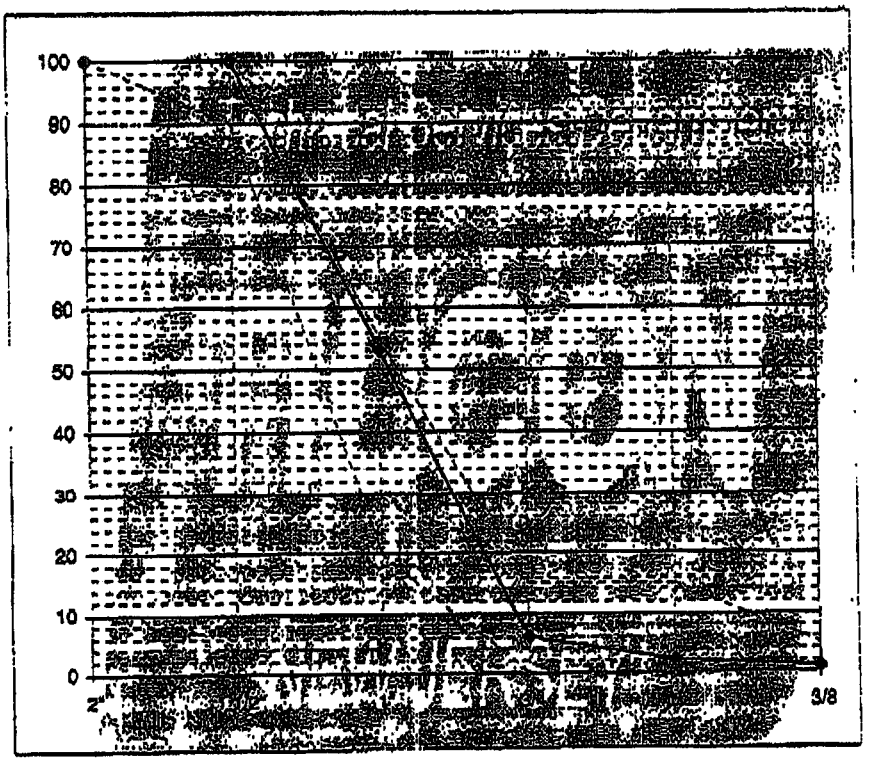
Typical Gradation #4 (1 1/2"Granite)

Project
Ventron Velsicol Superfund Site Woodridge / Carlstadt

Contractor
Severson Environmental

Sp. Gr	2.7
Loose	95
Rodded	103

	Typical	Prod. Target	
	% Pass	Low	High
2"	100	100	100
1 1/2"	100	90	100
1"	53	20	55
3/4	6		15
1/2	2		15
3/8	1		5



Tilcon-NJ confirms that the #4 (1 1/2"Granite) available at Pompton Lakes Quarry conforms to the quality requirements of section 901 of ***The New Jersey Department of*** **Transportation** ***Standard Specifications for Road and Bridge Construction.*** It is defined as virgin Gneiss mined at Pompton Lakes Quarry, Broad Street, Blk 60-Lots 60.01-60.02 Borough of Pompton Lakes, Morris County.The material is identified on the job with Tilcon NJ delivery tickets.

The unit weights and voids are for process control and should be verified by the contractor before use.

PARSONS

TO: Richard Elia II Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305 CC. Ken Walanski, Leopoldo Perez, Dan Hoffner, Rick Rizzo	Letter of Transmittal - 053 Date: May 27, 2009 | Job No.: 445039 Ventron Velsicol Superfund Site OU-1 – Undeveloped Area Construction Wood-Ridge and Carlstadt, New Jersey Re: Submittal 2200-01.1

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐ Shop drawings	☐ Attached	☐ Under separate cover via _____ the following items:		
☐ Copy of Letter	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
☒ Submittals		☐ _____		

No. Copies	Description
one	Submittal 2200-01.1 DGA Common Fill Samples 5840 B, C and D

Comments:

No comments

CONTRACTOR SUBMITTAL REVIEW

Reviewed – No Comments 2200-01.1 ☒
Comments as Noted ☐
Revise & Resubmit ☐
Not Subject to Review ☐

The comments are provided by Parsons on behalf of Rohm and Haas. Contractor is responsible for complying with the requirements of the Construction Contract Documents including the submittal requirements. This review does not relieve Contractor of any responsibility for the completeness or correctness of detail or accuracy of any drawings or specifications; nor does this review represent any liability therefore on the part of Rohm and Haas or Parsons.

By Robert Swabsin Date May 27, 2009

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: June 2, 2009	TRANSMITTAL NO. 2200-02

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO.	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO.	FOR CONTRACTOR USE CODE		VARIATION (See Instruction No. 6)	FOR CE USE CODE
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	Tilcon Overburden Test Report	MTI # S-5495	5	2.01A				Yes	
2	East Coast – Stavola Overburden Test Report	MTI # S-5496	5	2.01A				Yes	

REMARKS

Test results are for particle size distribution
Neither sample meets the specification for common fill. Sevenson requests a variation to use these materials as common fill for both in the Buffer Zone and as excavation area common fill.

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

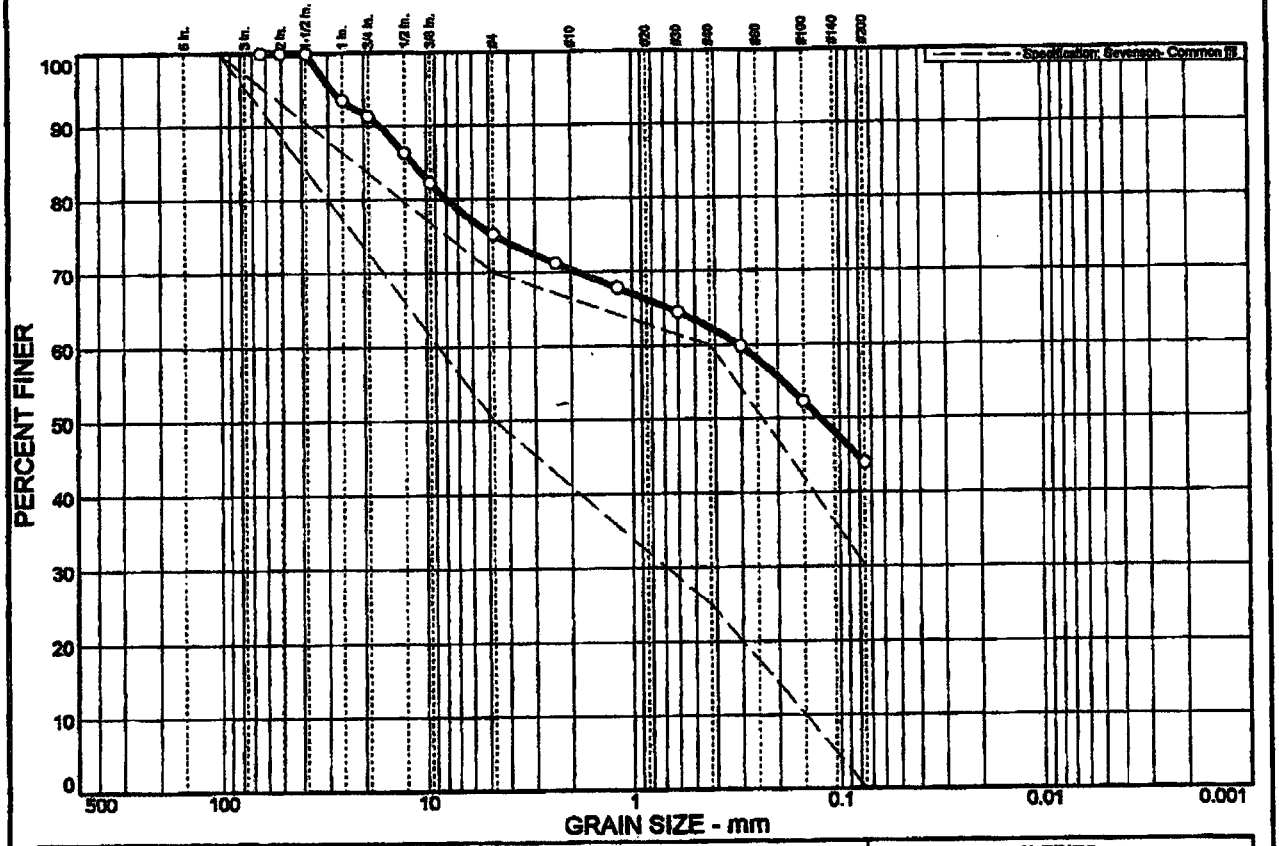
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	8.7	16.1	4.8	7.9	18.5	44.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	93.5		
3/4 in.	91.3		
1/2 in.	86.3		
3/8 in.	82.3		
#4	75.2	50 - 70	X
#8	71.2		
#16	67.8		
#30	64.5		
#50	59.8		
#100	52.3		
#200	44.0	0 - 30	X

* Sevenson- Common fill

Soil Description

Reddish brown silty sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 11.6 D_{60}= 0.307 D_{50}= 0.124
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Sample Fails Specifications for Common fill.
F.M.=2.36

Sample No.: S-5496 **Source of Sample:** Ventron Superfund Site **Date:** 6/1/09
Location: Stavola- Overburden- East Coast Common Fill **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5496

Amboy Aggregates

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: July 16, 2009	TRANSMITTAL NO. 2200-04.1

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE	NO. OF	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See	FOR CE USE
		DRAWING OR BROCHURE NO.	COPIES	SPEC. PARA. NO.	DRAWING SHEET NO.			instruction No. 6)	CODE
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	Amboy Aggregates Clean Sand Chemical Test Report	Waste Stream	5	2.01A				None	

REMARKS

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

JAYSON STARK

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

WASTE STREAM TECHNOLOGY, INC.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 07/16/09
Work Order Number: 9G09006

Prepared For
Rick Elia Jr.
Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302
Fax: (716) 285-4201

Site: Ventron-Velsicol 1008

Enclosed are the results of analyses for samples received by the laboratory on 07/09/09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amboy Aqq. Clean Sand	9G09006-01	Soil	07/08/09 12:00	07/09/09 10:00

Severson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqg. Clean Sand (9G09006-01) Soil	**Sampled: 07/08/09 12:00**	**Received: 07/09/09 10:00**							
Silver	ND	0.50	mg/kg dry	1	AG90903	07/09/09	07/09/09	EPA 6010B	
Aluminum	**786**	2.50	"	"	"	"	"	"	
Arsenic	**1.83**	1.70	"	"	"	"	"	"	
Barium	**1.09**	1.00	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Cobalt	**1.09**	1.00	"	"	"	"	"	"	
Chromium	**3.42**	1.00	"	"	"	"	"	"	
Copper	**2.12**	1.00	"	"	"	"	"	"	
Mercury	ND	0.012	"	"	AG91002	07/10/09	07/10/09	EPA 7471A	
Manganese	**50.1**	1.00	"	"	AG90903	07/09/09	07/09/09	EPA 6010B	
Nickel	**2.66**	1.00	"	"	"	"	"	"	
Lead	ND	4.10	"	"	"	"	"	"	
Antimony	ND	1.40	"	"	"	"	"	"	
Selenium	ND	1.40	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
Vanadium	**4.87**	1.00	"	"	"	"	"	"	
Zinc	**8.01**	4.00	"	"	"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqq. Clean Sand (9G09006-01) Soil Sampled: 07/08/09 12:00 Received: 07/09/09 10:00									
alpha-BHC [2C]	ND	0.400	ug/kg dry	1	AG91405	07/14/09	07/14/09	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*102 %*	*82-123*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*106 %*	*56-132*		"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqg. Clean Sand (9G09006-01) Soil Sampled: 07/08/09 12:00 Received: 07/09/09 10:00									
dichlorodifluoromethane	ND	10	ug/kg dry	1	AG91304	07/13/09	07/13/09	8260B	U
chloromethane	ND	10	"	"	"	"	"	"	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
trichlorofluoromethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	ND	10	"	"	"	"	"	"	U
carbon disulfide	ND	2	"	"	"	"	"	"	U
methylene chloride	7	2	"	"	"	"	"	"	B
Methyl tert-butyl ether	ND	2	"	"	"	"	"	"	U
Acrylonitrile	ND	10	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
2-butanone	ND	10	"	"	"	"	"	"	U
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
[illegible]loroform	ND	2	"	"	"	"	"	"	U
[illegible],1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	ND	2	"	"	"	"	"	"	U
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	ND	2	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
1,2-dibromoethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
1,1,1,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
ethylbenzene	ND	2	"	"	"	"	"	"	U
m,p-xylene	ND	4	"	"	"	"	"	"	U
o-xylene	ND	2	"	"	"	"	"	"	U
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
Acrolein	ND	10	"	"	"	"	"	"	U
Methyl Acetate	ND	10	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqg. Clean Sand (9G09006-01) Soil Sampled: 07/08/09 12:00 Received: 07/09/09 10:00									
Tert-butyl alcohol	ND	100	ug/kg dry	1	AG91304	07/13/09	07/13/09	8260B	U
1,2-dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*94.1 %*	*78-115*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*79-118*		"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*	*84-110*		"	"	"	"	
Surrogate: Bromofluorobenzene		*102 %*	*81-118*		"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqg. Clean Sand (9G09006-01) Soil	**Sampled: 07/08/09 12:00**	**Received: 07/09/09 10:00**							
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AG91515	07/15/09	07/15/09	8270C	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqg. Clean Sand (9G09006-01) Soil	**Sampled: 07/08/09 12:00**	**Received: 07/09/09 10:00**							
Diethyl phthalate	ND	67	ug/kg dry	1	AG91515	07/15/09	07/15/09	8270C	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	ND	67	"	"	"	"	"	"	U
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	ND	67	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	U
Chrysene	ND	67	"	"	"	"	"	"	U
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Acetophenone	ND	67	"	"	"	"	"	"	U
Caprolactam	ND	67	"	"	"	"	"	"	U
1,1'-Biphenyl	ND	67	"	"	"	"	"	"	U
Atrazine	ND	67	"	"	"	"	"	"	U
Benzaldehyde	ND	67	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*73.1 %*	*59-101*	"	"	"	"		
Surrogate: Phenol-d6		*74.7 %*	*64-105*	"	"	"	"		
Surrogate: Nitrobenzene-d5		*65.6 %*	*58-105*	"	"	"	"		
Surrogate: 2-Fluorobiphenyl		*78.8 %*	*67-101*	"	"	"	"		
Surrogate: 2,4,6-Tribromophenol		*81.6 %*	*63-108*	"	"	"	"		
Surrogate: Terphenyl-d14		*68.6 %*	*38-133*	"	"	"	"		

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1008	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	07/16/09 14:16

Conventional Chemistry Parameters by EPA Methods

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Amboy Aqg. Clean Sand (9G09006-01) Soil	**Sampled: 07/08/09 12:00 Received: 07/09/09 10:00**								
Cyanide (total)	ND	0.50	mg/kg dry	1	AG91410	07/13/09	07/14/09	EPA 9014	
pH	**8.27**	0.10	pH Units	"	AG91614	07/16/09	07/16/09	EPA 9045C	
% Solids	**94.5**	0.1	%	"	AG91004	07/09/09	07/10/09	% calculation	

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the reporting limit.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 9G09006
DUE DATE

PAGE one OF one

REPORT TO: Sevenson Environmental, Job 1008, Wood-Ridge NJ

CONTACT: Rick Elia

PH. # (201) 933-0019

FAX # (201) 933-1996

BILL TO: Sevenson Environ.

PO # FO 187960

PROJECT DESCRIPTION: Ventron Velsicol

SAMPLER SIGNATURE: [signature] 1530

TURN AROUND TIME: 5 day

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements

Is a QC Package required: YES NO
If yes please attach requirements.

DW DRINKING WATER, GW GROUND WATER, SW SURFACE WATER, WW WASTE WATER, O OIL, SL SLUDGE, SO SOIL, S SOLID, W WIPE, OTHER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	NJ DEP Residential Clean	PH								TYPE OF CONTAINER/ COMMENTS	OFFICE USE ONLY WST. I.D.
1	Amboy Agg. Clean Sand	7/8	12^30	So	3	✓	✓								2 lg. 1 Sm Jar	-01
2																
3																
4																
5																
6																
7																
8																
9																
10																

REMARKS: New Jersey DEP Residential Clean Soil

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature] 1330	7/8/09	12:05 PM	Anthony [signature]	7/9/09	10:00
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY:	DATE: / /	TIME:

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: July 20, 2009	TRANSMITTAL NO. 2200-07

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE	NO. OF	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See	FOR CE USE
		DRAWING OR BROCHURE NO.	COPIES	SPEC. PARA. NO.	DRAWING SHEET NO.			Instruction No. 6)	CODE
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	Amboy Aggregates Clean Sand fill Civil Test Report	MT Group	5	2.01				None	

REMARKS

For use in the buffer zone

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

JAYSON GARY
NAME AND SIGNATURE OF CONTRACTOR

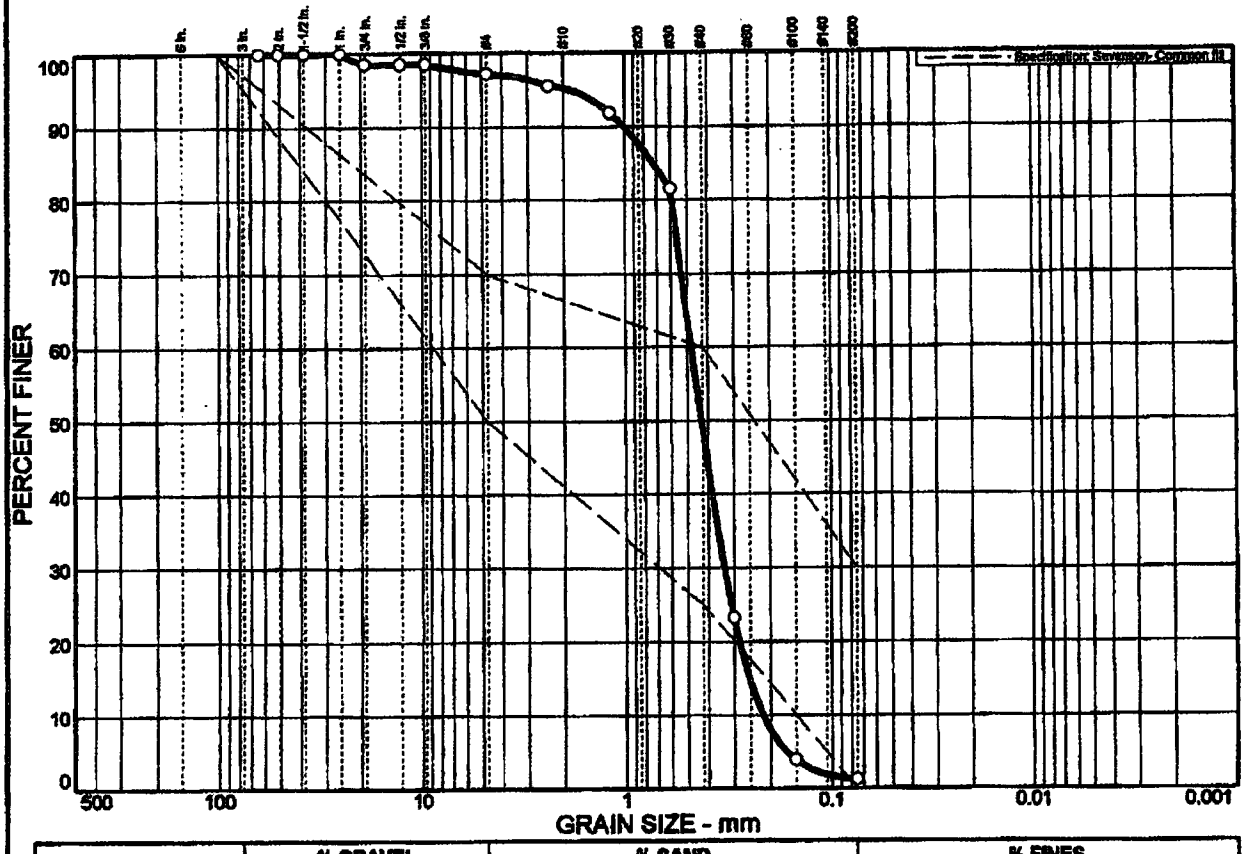
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	1.5	1.3	1.9	45.9	48.2	1.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
3/4 in.	98.5		
1/2 in.	98.5		
3/8 in.	98.5		
#4	97.2	50 - 70	X
#8	95.5		
#16	91.9		
#30	81.5		
#50	23.2		
#100	3.9		
#200	1.2	0 - 30	

* Sevenson- Common fill

Soil Description

Brown Poorly Graded Sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.721 D_{60}= 0.478 D_{50}= 0.428
D_{30}= 0.334 D_{15}= 0.253 D_{10}= 0.218
C_u= 2.19 C_c= 1.07

Classification

USCS= SP AASHTO=

Remarks

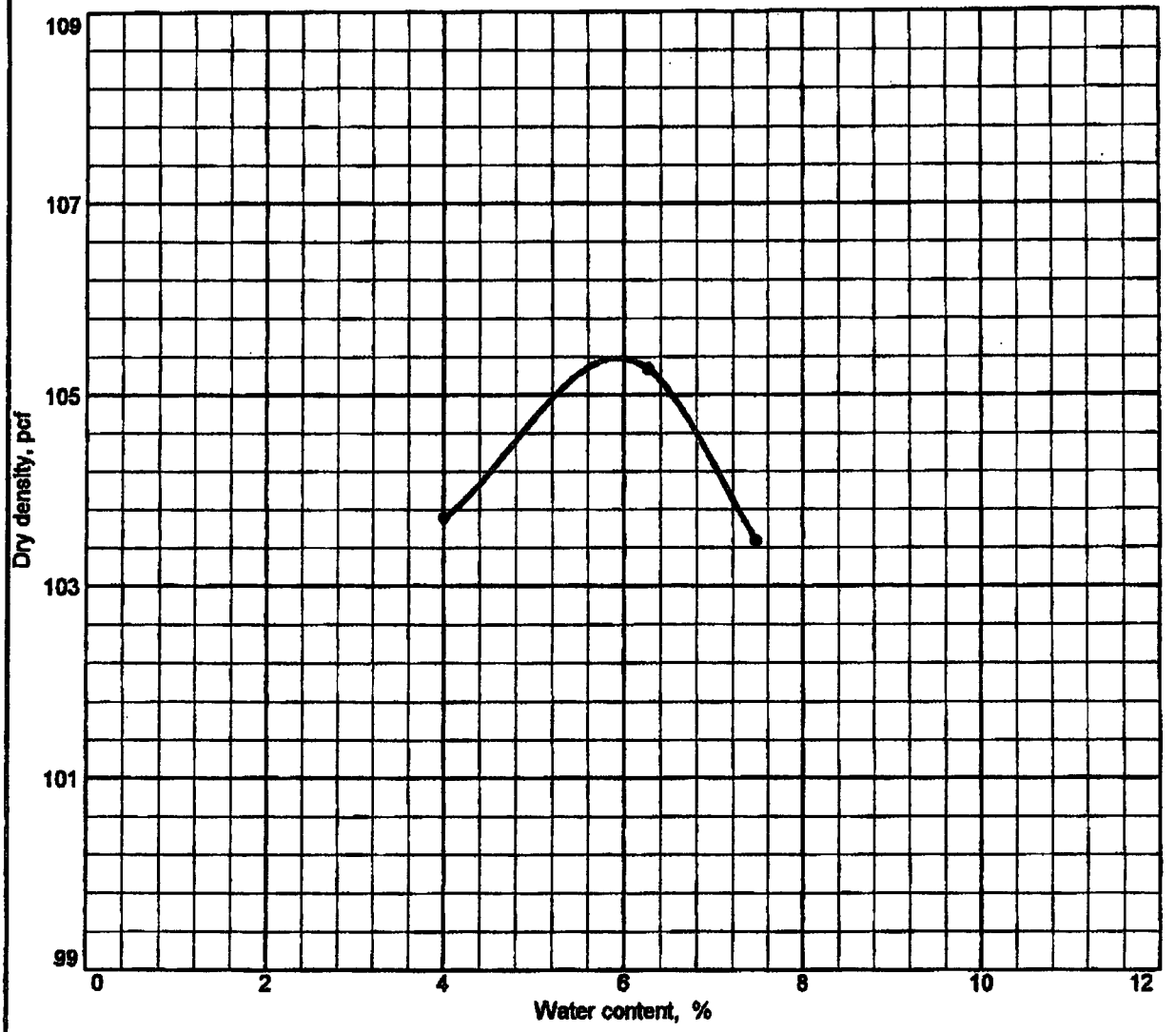
F.M.=2.10

Sample No.: S-5519 **Source of Sample:** Ventron Superfund Site **Date:** 07/08/09
Location: Amboy Aggregate **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5519

COMPACTION TEST REPORT



Test specification: ASTM D 1557-91 Procedure A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
	SP						2.8	1.2

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 105.4 pcf Optimum moisture = 5.9 %	Brown Poorly Graded Sand

Project No. **Client:** Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site

• **Location:** Amboy Aggregate

Remarks:

COMPACTION TEST REPORT

MATERIALS TESTING, INC.

MTI # S-5519

PARSONS

TO: Richard Elia II Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305 CC. Ken Walanski, Leopoldo Perez, Dan Hoffner, Rick Rizzo	Letter of Transmittal - 111 Date: August 18, 2009 | Job No.: 445039 Ventron Velsicol Superfund Site OU-1 – Undeveloped Area Construction Wood-Ridge and Carlstadt, New Jersey Re: Submittal 2200-09

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐ Shop drawings	☐ Attached	☐ Under separate cover via _____ the following items:		
☐ Copy of Letter	☐ Prints	☐ Plans	☐ Samples	☐ Specifications
☒ Submittals		☐ _____		

No. Copies	Description
one	**Submittal 2200-09 Geotechnical Analysis and Organic Content – Cedar Hill Topsoil Wetlands and Cedar Hill Topsoil Screened**

Comments:

Revise and Resubmit (see comments).
1. It is unclear whether the test data from Rutgers is for the Screened topsoil or for the Wetlands topsoil – please clarify.
2. Screened topsoil has insufficient clay content (3.2%) and must have a minimum of 10%.
3. Rutgers test data – Organic Content is insufficient for Wetlands topsoil. pH is also too high, cannot exceed 7.2.
4. There is pH test data for the topsoil shown on the Analytical Lab Test results (submittal 2200-08) and pH data included in this submittal. Please clarify which data is the pH data you are officially submitting for these samples. Note that some results meet the specs. and one test does not (Rutgers Data).

CONTRACTOR SUBMITTAL REVIEW

Reviewed – No Comments _____ ☐
Comments as Noted _____ ☐
Revise & Resubmit _____ 2200-09 _____ ☒
Not Subject to Review _____ ☐

The comments are provided by Parsons on behalf of Rohm and Haas. Contractor is responsible for complying with the requirements of the Construction Contract Documents including the submittal requirements. This review does not relieve Contractor of any responsibility for the completeness or correctness of detail or accuracy of any drawings or specifications; nor does this review represent any liability therefore on the part of Rohm and Haas or Parsons.

By Robert Swabsin Date August 18, 2009

Tilcon Crushed Stone Virgin Source Certification and Rip Rap Sizing Results

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: August 31, 2009	TRANSMITTAL NO. 2200-02

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:		CHECK ONE:
PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1008	X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal	PROJECT TITLE AND LOCATION:	CHECK ONE: THIS TRANSMITTAL IS
Section 2200 Common Fill	Ventron/Velsicol Superfund Site OU-1 West Riser Tide Gate Wood-Ridge and Carlstadt Boroughs New Jersey	FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE / DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See instruction No. 6)	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.				
a.	b.	c.	d.	e.	f.	g.		h.	j.
1	Test results and virgin certification for 1 1/2 " Clean Stone (Oxford Quarry and Riverdale Quarry)	See attached	5	2.01 D				Yes	
2	Rip Rap Sizing Results	See attached	5	2.01 C				Yes	

REMARKS

These results are in addition to Transmittal 2200-01

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

JAYSON STARK

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

TILCON NJ - Mt. Hope Facility

July, 2007

Rip Rap
Sevenson Materals

Tilcon-NJ confirms that the Rip Rap available at Mt. Hope Quarry Conforms to the quality requirements of section 901 of ***The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction.*** It is defined as virgin Gneiss mined at Mt. Hope Quarry, 625 Mt. Hope Rd. Blk 20001-Lot 6.01Wharton Boro, Morris County NJ. The material is identified on the job with Tilcon NJ delivery tickets.

This Rip Rap has the following properties:

Sodium Sulfate Soundness	(ASTM C88)	2.0% Loss
Water Absorption	(ASTM C97)	0.50%
LA Abrasion	(ASTM-C535)	13.65% Loss
Bulk Specific Gravity	(ASTM-C97)	2.72
Freeze-Thaw Test	(ASTM-T103)	2.4% Loss

And the following Gradation

D_{100}	18
D_{60}	12
D_{10}	6

If you have anyquestions or concerns, please call.

(973)-366-3740
Central Materials Lab
Tilcon, NJ

TILCON-NY Riverdale Quarry

Fax 973-989-0178

125 HAMBURG TURNPIKE • RIVERDALE, N.J. • 973-366-7741

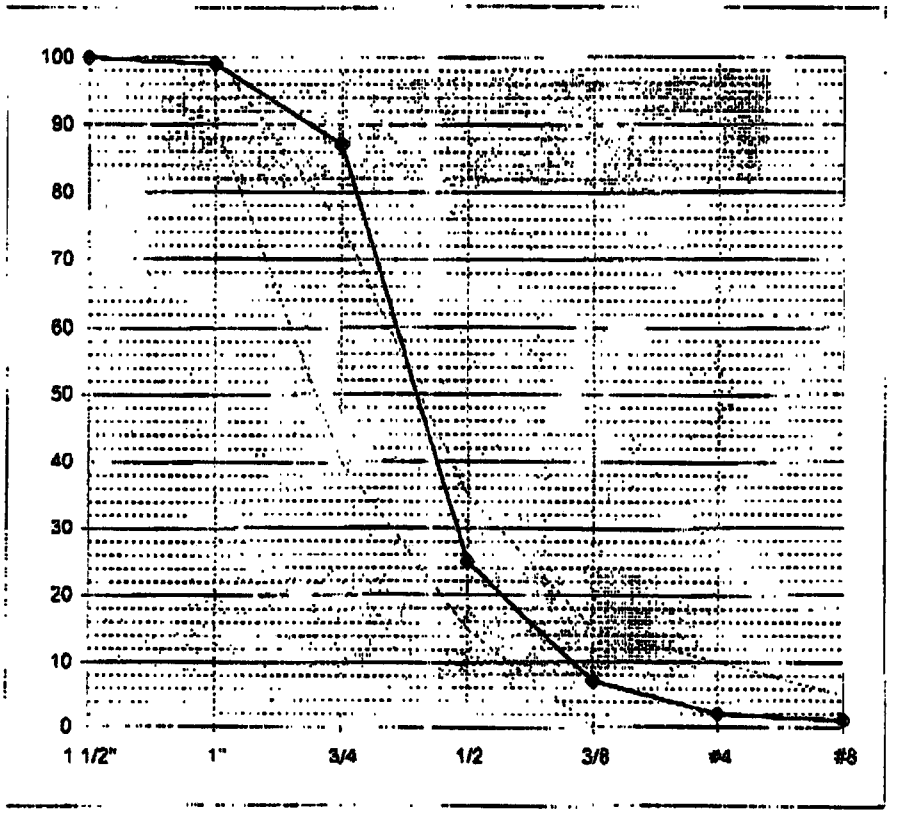
Typical Gradation #56 (3/4" Granite)

Project

Contractor
Sevenson Materials

Sp. Gr	2.74
Loose	89
Rodded	102

	Typical	Prod. Target	
	% Pass	Low	High
1 1/2"	100	100	100
1"	99	90	100
3/4	87	40	75
1/2	26	15	35
3/8	7		15
#4	2		10
#8	1		5



Tilcon-NJ confirms that the #56 (3/4" Granite) available at Riverdale Quarry conforms to the quality requirements of section 901 of ***The New Jersey Department of*** **Transportation** ***Standard Specifications for Road and Bridge Construction.*** It is defined as virgin Gneiss mined at Riverdale Quarry, 125 Hamburg Turnpike, Block 13-Lots 25-29 Borough of Riverdale, Morris County.The material is identified on the job with Tilcon NJ delivery tickets.

The unit weights and voids are for process control and should be verified by the contractor before use.

TILCON-NY Oxford Quarry

Fax 973-989-0178

MT PISGAH & QUARRY AVE • P.O. BOX 120 • OXFORD, N.J. 07863 • 908-453-4141

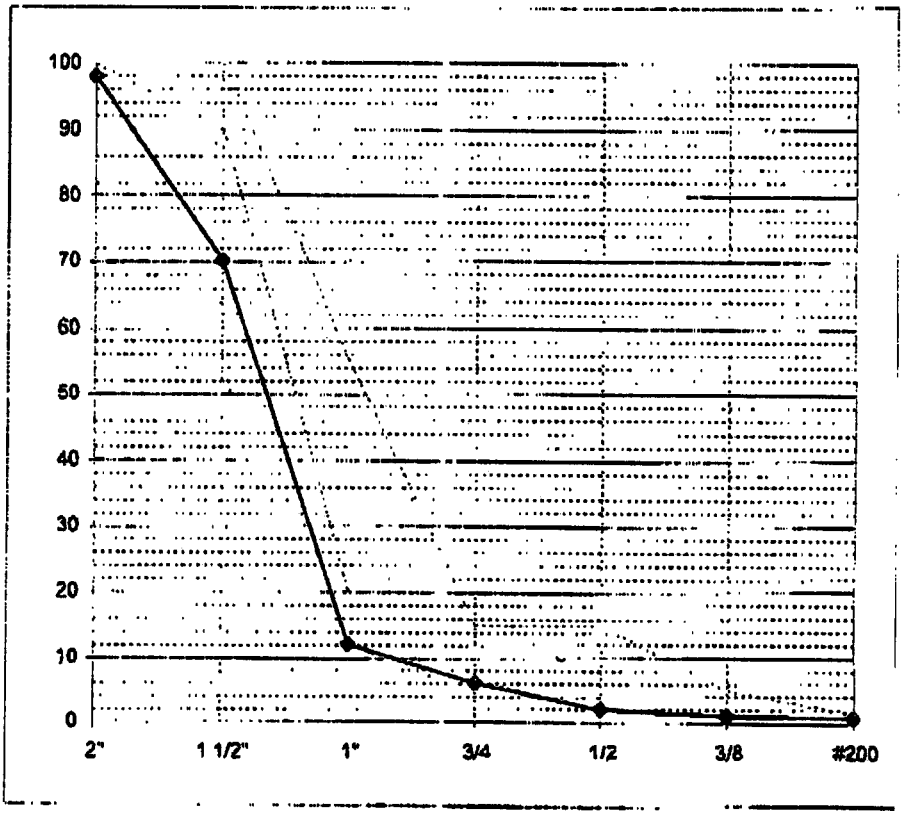
Typical Gradation #4 (1 1/2"Granite)

Project

Contractor
Sevenson Materials 201-933-1996

Sp. Gr	2.68
Loose	118.7
Rodded	118.3

	Typical	Prod. Target	
	% Pass	Low	High
2"	98	100	100
1 1/2"	70	90	100
1"	12	20	55
3/4	6		15
1/2	2		15
3/8	1		5
#200	0.7		1.5



Oxford Quarry confirms that the #4 (1 1/2"Granite) available at Oxford Quarry conforms to section 901 of ***The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction.The material*** is defined as virgin granite mined at Oxford Quarry Quarry Road & Mt Pisgah Ave, Block 33-Lot 21 & 22 White Township, Warren County. The material is identified on the job with Tilcon NJ delivery tickets.

The unit weights and voids and typical gradation are for process control and should be verified by the contractor before use.

Backfill (I-5 Material from Tilcon)

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: September 23, 2009	TRANSMITTAL NO. 2200-04

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1007	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 West Riser Tide Gate Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE	NO. OF	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See	FOR CE USE
		DRAWING OR BROCHURE NO.	COPIES	SPEC. PARA. NO.	DRAWING SHEET NO.			*Instruction No. 6)*	CODE
a.	*b.*	*c.*	*d.*	*e.*	*f.*	*g.*		*h.*	*j.*
1	Backfill (I-5 Material from Tilcon) Civil Analysis	See attached	1	2.01A					

REMARKS

Chemical Analysis to follow

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

JAYSON STARK

NAME AND SIGNATURE OF CONTRACTOR

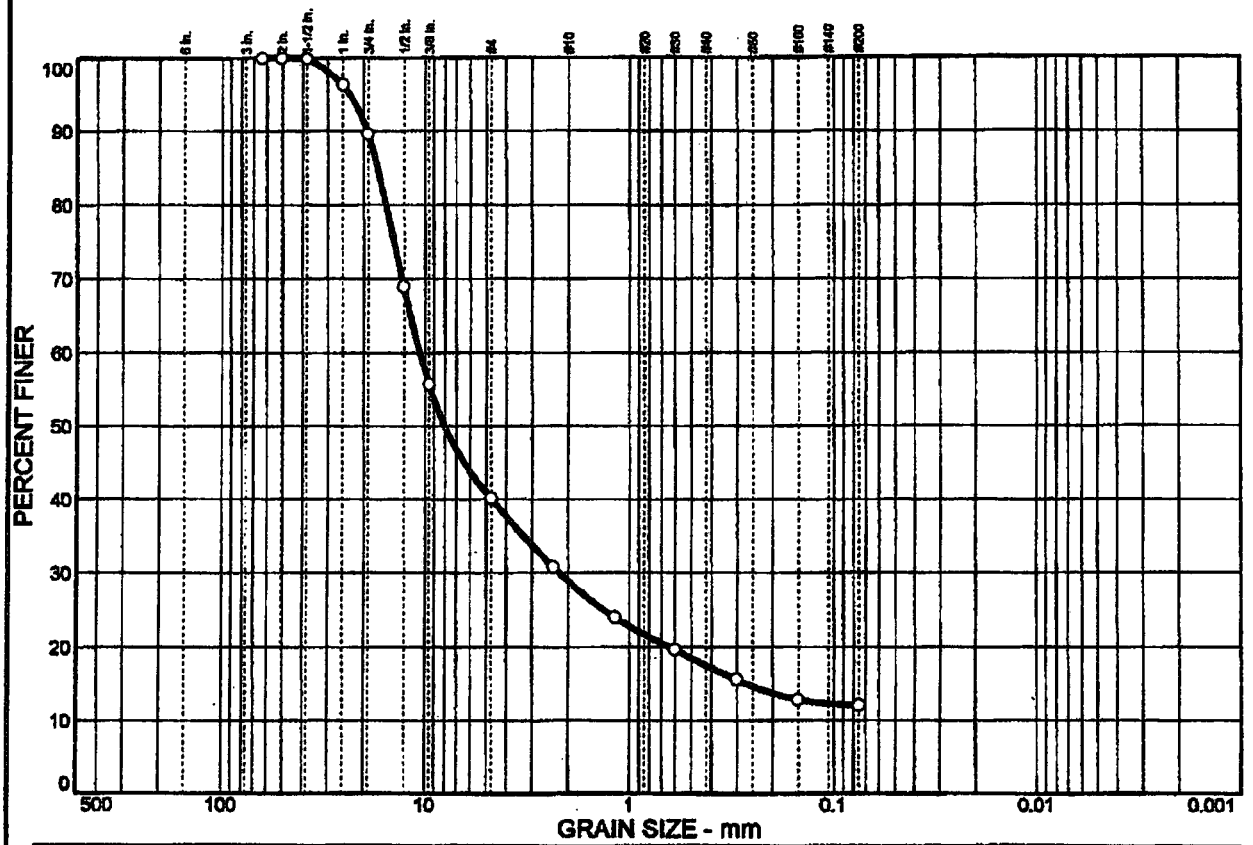
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CR6.	FINE	CR6.	MEDIUM	FINE	SILT	CLAY
0.0	10.4	49.4	11.3	11.4	5.5	12.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	96.3		
3/4 in.	89.6		
1/2 in.	68.9		
3/8 in.	55.7		
#4	40.2		
#8	30.8		
#16	24.0		
#30	19.6		
#50	15.5		
#100	12.8		
#200	12.0		

* (no specification provided)

Soil Description

Gray Poorly Graded Gravel With silt and sand.

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 17.1 D_{60}= 10.6 D_{50}= 7.98
D_{30}= 2.20 D_{15}= 0.272 D_{10}=
C_u= C_c=

Classification

USCS= GP-GM AASHTO=

Remarks

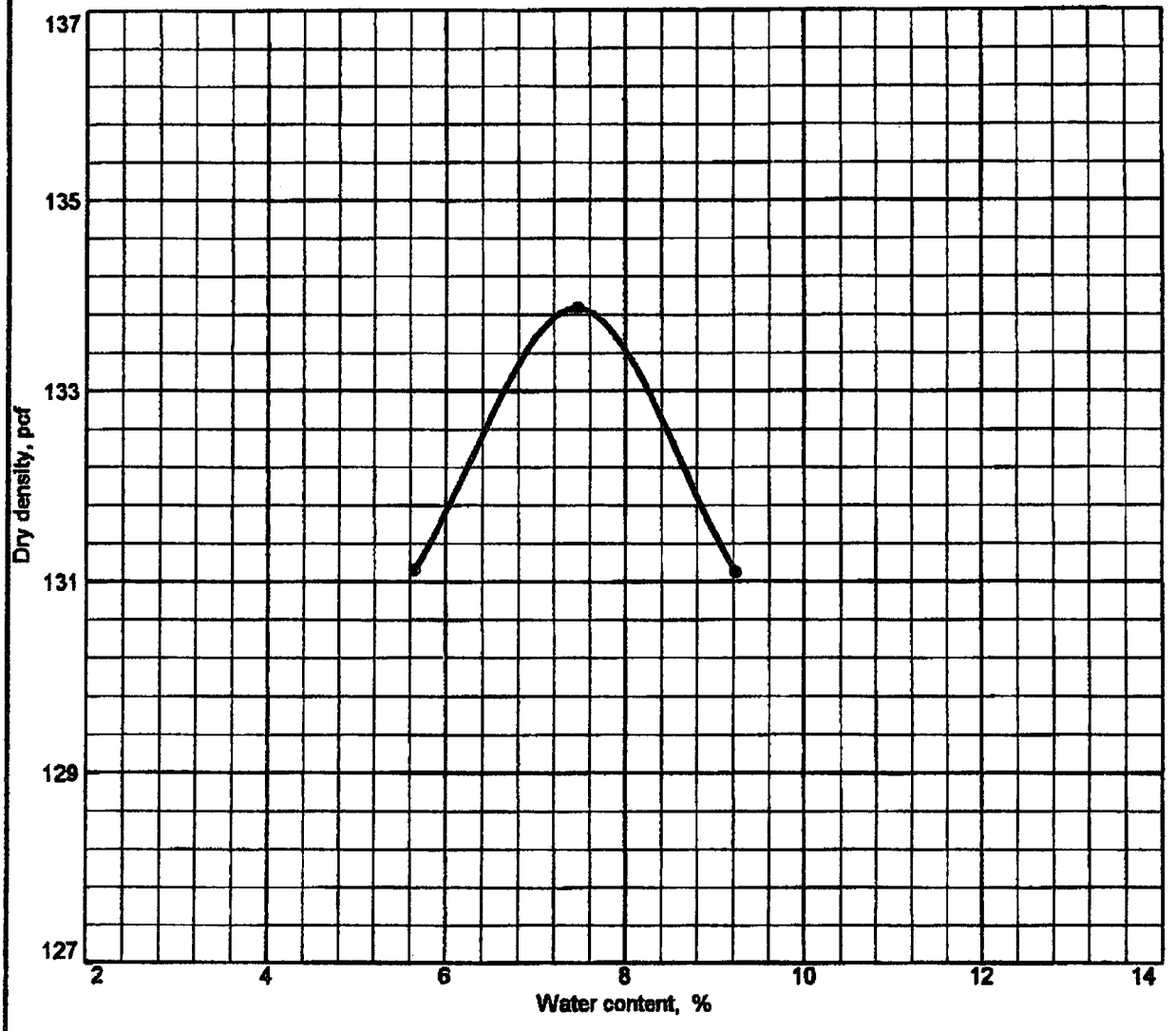
F.M.=5.12

Sample No.: S-5567 **Source of Sample:** Ventron Landfill **Date:** 9/18/09
Location: I-5 Material **Elev./Depth:**

MATERIALS TESTING, INC.

Client: Sevenson Environmental
Project: Ventron/ Velsicol Superfund Site
Project No: **MTI #** S-5567

COMPACTION TEST REPORT



Test specification: ASTM D 1557-78 Method C Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP-GM						10.4	12.0

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 133.9 pcf Optimum moisture = 7.5 %	Gray Poorly Graded Gravel With silt and sand.
Project No. **Client:** Sevenson Environmental **Project:** Ventron/ Velsicol Superfund Site • **Location:** I-5 Material	**Remarks:**
COMPACTION TEST REPORT **MATERIALS TESTING, INC.**	MTI # S-5567

TILCON-NY Pompton Lakes Quarry Fax 973-989-0178

BROAD STREET • POMPTON LAKES, N.J. • 973-366-7741

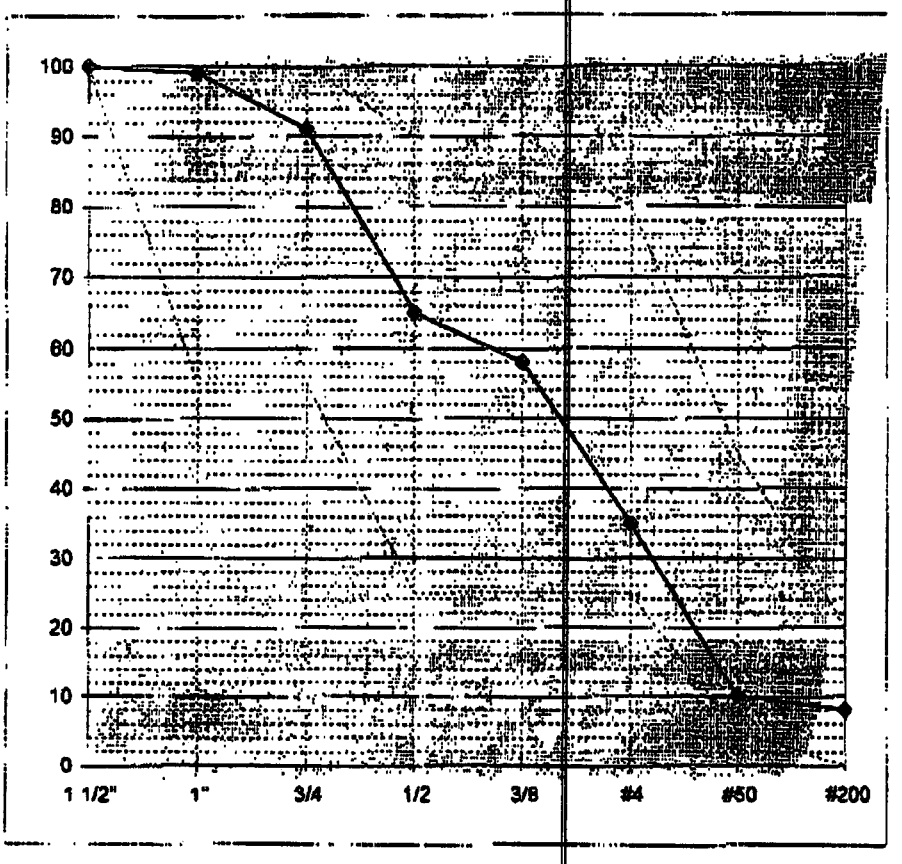
Typical Gradation I-5 Soil Agg

Project
Veltron Site

Contractor
Sevenson Environmental

Sp. Gr	2.84
Loose	101
Rodded	120

	Typical	Prod. Target	
	% Pass	Low	High
1 1/2"	100	100	100
1"	99	55	100
3/4	91	55	100
1/2	65	25	90
3/8	58	25	90
#4	35	25	80
#50	10	5	45
#200	8		20



Tilcon-NJ confirms that the I-5 Soil Agg available at Pompton Lakes Quarry conforms to the quality requirements of section 901 of ***The New Jersey Department of*** **Transportation** ***Standard Specifications for Road and Bridge Construction.*** It is defined as virgin Gneiss mined at Pompton Lakes Quarry, Broad Street, Blk 60-Lots 60.01-60.02 Borough of Pompton Lakes, Morris County.The material is identified on the job with Tilcon NJ delivery tickets.

The unit weights and voids are for process control and should be verified by the contractor before use.

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE: October 1, 2009	TRANSMITTAL NO. 2200-05

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: PARSONS 150 Federal Street 4th Floor Boston, MA 02110 Attn: Chris Greene	FROM: Sevenson Environmental 2749 Lockport Road Niagara Falls, NY 14305	Sevenson Job No. 1007	CHECK ONE: X THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL
SPECIFICATION SEC. NO. (Cover only one section with each transmittal Section 2200 Common Fill	PROJECT TITLE AND LOCATION: Ventron/Velsicol Superfund Site OU-1 West Riser Tide Gate Wood-Ridge and Carlstadt Boroughs New Jersey		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO X APPROVAL

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT. CURVE	NO. OF	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE		VARIATION (See	FOR CE USE
		DRAWING OR BROCHURE NO.	COPIES	SPEC. PARA. NO.	DRAWING SHEET NO.			*instruction No. 6)*	CODE
a.	*b.*	*c.*	*d.*	*e.*	*f.*	*g.*		*h.*	*j.*
1	Tilcon I-5 Material Chemical Analysis	See attached	5	2.01A					

REMARKS

Chemical Analysis from Wastestream

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

JAYSON STARK

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Sevenson Environmental Services, Inc.

Reverse of ENG FORM 4025

WASTE STREAM TECHNOLOGY, INC.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 10/01/09
Work Order Number: 9I24006

Prepared For
Rick Elia Jr.
Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302
Fax: (716) 285-4201

Site: Ventron-Velsicol 1007

Enclosed are the results of analyses for samples received by the laboratory on 09/24/09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel W. Vollmer

Daniel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tilcon I-5	9I24006-01	Soil	09/23/09 10:30	09/24/09 10:30

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9I24006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
Silver	ND	0.50	mg/kg dry	1	AI92506	09/25/09	09/25/09	EPA 6010B	
Aluminum	**6620**	2.50	"	"	"	"	"	"	
Arsenic	**3.05**	1.70	"	"	"	"	"	"	
Barium	**21.6**	1.00	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**1.08**	1.00	"	"	"	"	"	"	
Cobalt	**10.3**	1.00	"	"	"	"	"	"	
Chromium	**17.4**	1.00	"	"	"	"	"	"	
Copper	**42.6**	1.00	"	"	"	"	"	"	
Mercury	ND	0.012	"	"	AI92502	09/25/09	09/25/09	EPA 7471A	
Manganese	**224**	1.00	"	"	AI92506	09/25/09	09/25/09	EPA 6010B	
Nickel	**16.8**	1.00	"	"	"	"	"	"	
Lead	**5.97**	4.10	"	"	"	"	"	"	
Antimony	ND	1.40	"	"	"	"	"	"	
Selenium	ND	1.40	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
Vanadium	**17.1**	1.00	"	"	"	"	"	"	
Zinc	**23.4**	4.00	"	"	"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9I24006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
alpha-BHC	ND	0.400	ug/kg dry	1	A192402	09/24/09	09/25/09	8081A/8082	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*94.4 %*	*82-123*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*87.5 %*	*56-132*		"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9124006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
dichlorodifluoromethane	ND	10	ug/kg dry	1	AI92802	09/28/09	09/28/09	8260B	U
chloromethane	ND	10	"	"	"	"	"	"	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
trichlorofluoromethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	ND	10	"	"	"	"	"	"	U
carbon disulfide	ND	2	"	"	"	"	"	"	U
methylene chloride	9	2	"	"	"	"	"	"	B
Methyl tert-butyl ether	ND	2	"	"	"	"	"	"	U
Acrylonitrile	ND	10	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
2-butanone	ND	10	"	"	"	"	"	"	U
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	ND	2	"	"	"	"	"	"	U
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	ND	2	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
1,2-dibromoethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
1,1,1,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
ethylbenzene	ND	2	"	"	"	"	"	"	U
m,p-xylene	ND	4	"	"	"	"	"	"	U
o-xylene	ND	2	"	"	"	"	"	"	U
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
Acrolein	ND	10	"	"	"	"	"	"	U
Methyl Acetate	ND	10	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9I24006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
Tert-butyl alcohol	ND	100	ug/kg dry	1	AI92802	09/28/09	09/28/09	8260B	U
1,2-dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*96.9 %*	*78-115*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*79-118*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*84-110*		"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*	*81-118*		"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	Reported:
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9I24006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AI92412	09/24/09	09/25/09	8270C	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9124006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
Diethyl phthalate	ND	67	ug/kg dry	1	A192412	09/24/09	09/25/09	8270C	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	ND	67	"	"	"	"	"	"	U
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	ND	67	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	U
chrysene	ND	67	"	"	"	"	"	"	U
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Acetophenone	ND	67	"	"	"	"	"	"	U
Caprolactam	ND	67	"	"	"	"	"	"	U
1,1'-Biphenyl	ND	67	"	"	"	"	"	"	U
Atrazine	ND	67	"	"	"	"	"	"	U
Benzaldehyde	ND	67	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*76.6 %*	*59-101*	"	"	"	"	"	
Surrogate: Phenol-d6		*77.2 %*	*64-105*	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*81.5 %*	*58-105*	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*81.2 %*	*67-101*	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*86.0 %*	*63-108*	"	"	"	"	"	
Surrogate: Terphenyl-d14		*71.1 %*	*38-133*	"	"	"	"	"	

Sevenson Environmental Services	Project: Ventron-Velsicol	
2749 Lockport Road	Project Number: Ventron-Velsicol 1007	**Reported:**
Niagara Falls NY, 14302	Project Manager: Rick Elia Jr.	10/01/09 15:45

Conventional Chemistry Parameters by EPA Methods

Waste Stream Technology

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tilcon I-5 (9I24006-01) Soil Sampled: 09/23/09 10:30 Received: 09/24/09 10:30									
Cyanide (total)	ND	0.50	mg/kg dry	1	AI92827	09/28/09	09/28/09	EPA 9014	
pH	**6.21**	0.10	pH Units	"	AJ90118	10/01/09	10/01/09	EPA 9045C	
% Solids	**80.9**	0.1	%	"	AI92504	09/24/09	09/25/09	% calculation	

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the reporting limit.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 9I240006
DUE DATE

PAGE 1 OF 1

REPORT TO: SEVENSON
JOB 1007
WOOD-RIDGE, NJ
CONTACT: RICK ELIA JR
PH # ( ): 201-933-0019
FAX # ( ): 201-933-1996
BILL TO: SEVENSON JOB 1007
PO#: 194793
PROJECT DESCRIPTION: VENTRON-VELSICOL
SAMPLER SIGNATURE:

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

TURN AROUND TIME: 5 DAY
QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements.

Is a QC Package required: YES NO
If yes please attach requirements

ANALYSES TO BE PERFORMED

	SAMPLE ID	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	NJ RESIDENTIAL CLEAN	PH	TYPE OF CONTAINER/ COMMENTS	OFFICE USE ONLY WST. I.D
1	TILCON I-5	9/24	10:30	SO	4	✓	✓	2 Lg - 2 SM JAR	07
2									
3									
4									
5									
6									
7									
8									
9									
10									

REMARKS:
NEW JERSEY RESIDENTIAL CLEAN SOIL

RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY	DATE: 9/24/09	TIME: 10:30
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY	DATE: / /	TIME: